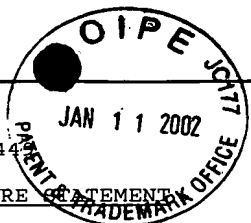


FORM PTO-144

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0260001APPLICATION NO.
09/476,093APPLICANT
Sorrells et al.FILING DATE
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2631

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DXN	AA1	2,057,613	10/1936	Gardner	250	8	
DXN	AB1	2,241,078	05/1941	Vreeland	179	15	
DXN	AC1	2,270,385	01/1942	Skillman	179	15	
DXN	AD1	2,283,575	05/1942	Roberts	250	6	
DXN	AE1	2,358,152	09/1944	Earp	179	171.5	
DXN	AF1	2,410,350	10/1946	Labin et al.	179	15	
DXN	AG1	2,451,430	10/1948	Barone	250	8	
DXN	AH1	2,462,069	02/1949	Chatterjea et al.	250	17	
DXN	AI1	2,462,181	02/1949	Grosselfinger	250	17	

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DXN	AJ1	DE 42 37 692 C1	03/1994	DE	H04B	1/26	No
DXN	AK1	EP 0 035 166 A1	09/1981	EP	H04B	1/26	No
DXN	AL1	EP 0 193 899 B1	06/1990	EP	G01S	7/52	N/A
DXN	AM1	EP 0 380 351 A2	08/1990	EP	H03H	17/04	N/A

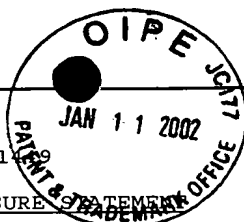
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DXN	AN	1	Aghvami, H. et al., "Land Mobile Satellites Using the Highly Elliptic Orbits- The UK T-SAT Mobile Payload," Fourth International Conference on Satellite Systems for Mobile Communications and Navigation, IEE, pp. 147-153 (October 17-19, 1988).
DXN	AO	1	Akers, N.P. et al., "RF Sampling Gates: a Brief Review," IEE Proceedings, IEE, Vol. 133, Part A, No. 1, pp. 45-49 (January 1986).
DXN	AP	1	Al-Ahmad, H.A.M. et al., "Doppler Frequency Correction for a Non-Geostationary Communications Satellite. Techniques for CERS and T-SAT," Electronics Division Colloquium on Low Noise Oscillators and Synthesizers, IEE, pp. 4/1-4/5 (January 23, 1986).
DXN	AQ	1	Ali, I. et al., "Doppler Characterization for LEO Satellites," IEEE Transactions on Communications, IEEE, Vol. 46, No. 3, pp. 309-313 (March 1998).
DXN	AR	1	Allan, D.W., "Statistics of Atomic Frequency Standards," Proceedings Of The IEEE Special Issue on Frequency Stability, IEEE, pp. 221-230 (February 1966).

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8-4-03

5/5/2003

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0260001APPLICATION NO.
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January 3, 2000GROUP
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DPN</i>	AA2	2,472,798	06/1949	Fredendall	178	44	
<i>DPN</i>	AB2	2,497,859	02/1950	Boughtwood et al.	250	8	
<i>DPN</i>	AC2	2,499,279	02/1950	Peterson	332	41	
<i>DPN</i>	AD2	2,802,208	08/1957	Hobbs	343	176	
<i>DPN</i>	AE2	2,985,875	05/1961	Grisdale et al.	343	100	
<i>DPN</i>	AF2	3,023,309	02/1962	Foulkes	250	17	
<i>DPN</i>	AG2	3,069,679	12/1962	Sweeney et al.	343	200	
<i>DPN</i>	AH2	3,104,393	09/1963	Vogelman	343	200	
<i>DPN</i>	AI2	3,114,106	12/1963	McManus	325	56	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>DPN</i>	AJ2	EP 0 380 351 A3	02/1991	EP	H03H	17/04	N/A
<i>DPN</i>	AK2	EP 0 411 840 A2	02/1991	EP	G01R	33/36	N/A
<i>DPN</i>	AL2	EP 0 411 840 A3	07/1991	EP	G01R	33/36	N/A
<i>DPN</i>	AM2	EP 0 411 840 B1	10/1995	EP	G01R	33/36	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DPN</i>	AN	2	Allstot, D.J. et al., "MOS Switched Capacitor Ladder Filters," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-13, No. 6, pp. 806-814 (December 1978).
<i>DPN</i>	AO	2	Allstot, D.J. and Black Jr. W.C., "Technological Design Considerations for Monolithic MOS Switched-Capacitor Filtering Systems," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 967-986 (August 1983).
<i>DPN</i>	AP	2	Alouini, M. et al., "Channel Characterization and Modeling for Ka-Band Very Small Aperture Terminals," <i>Proceedings Of the IEEE</i> , IEEE, Vol. 85, No. 6, pp. 981-997 (June 1997).
<i>DPN</i>	AQ	2	Andreyev, G.A. and Ogarev, S.A., "Phase Distortions of Keyed Millimeter-Wave Signals in the Case of Propagation in a Turbulent Atmosphere," <i>Telecommunications and Radio Engineering</i> , Scripta Technica, Vol. 43, No. 12, pp. 87-90 (December 1988).
<i>DPN</i>	AR	2	Antonetti, A. et al., "Optoelectronic Sampling in the Picosecond Range," <i>Optics Communications</i> , North-Holland Publishing Company, Vol. 21, No. 2, pp. 211-214 (May 1977).

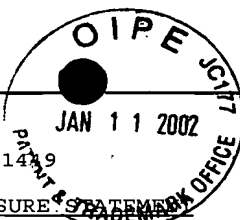
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DXN</i>	AA3	3,118,117	01/1964	King et al.	332	22	
<i>DXN</i>	AB3	3,226,643	12/1965	McNair	325	40	
<i>DXN</i>	AC3	3,258,694	06/1966	Shepherd	325	145	
<i>DXN</i>	AD3	3,383,598	05/1968	Sanders	325	163	
<i>DXN</i>	AE3	3,384,822	05/1968	Miyagi	325	30	
<i>DXN</i>	AF3	3,454,718	07/1969	Perreault	178	66	
<i>DXN</i>	AG3	3,523,291	08/1970	Pierret	340	347	
<i>DXN</i>	AH3	3,548,342	12/1970	Maxey	332	9	
<i>DXN</i>	AI3	3,555,428	01/1971	Perreault	325	320	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>DXN</i>	AJ3	EP 0 423 718 A2	04/1991	EP	H04N	7/01	N/A
<i>DXN</i>	AK3	EP 0 423 718 A3	08/1992	EP	H04N	7/01	N/A
<i>DXN</i>	AL3	EP 0 486 095 A1	05/1992	EP	H03D	3/00	N/A
<i>DXN</i>	AM3	EP 0 486 095 B1	02/1997	EP	H03D	3/00	N/A

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<i>DXN</i>	AN	3	Austin, J. et al., "Doppler Correction of the Telecommunication Payload Oscillators in the UK T-SAT," 18 th European Microwave Conference, Microwave Exhibitions and Publishers Ltd., pp. 851-857 (September 12 - 15, 1988).
<i>DXN</i>	AO	3	Auston, D.H., "Picosecond optoelectronic switching and gating in silicon," <i>Applied Physics Letters</i> , American Institute of Physics, Vol. 26, No. 3, pp. 101-103 (February 1, 1975).
<i>DXN</i>	AP	3	Baher, H., "Transfer Functions for Switched-Capacitor and Wave Digital Filters," <i>IEEE Transactions on Circuits and Systems</i> , IEEE Circuits and Systems Society, Vol. CAS-33, No. 11, pp. 1138-1142 (November 1986).
<i>DXN</i>	AQ	3	Baines, R., "The DSP Bottleneck," <i>IEEE Communications Magazine</i> , IEEE Communications Society, pp. 46-54 (May 1995).
<i>DXN</i>	AR	3	Banjo, O.P. and Vilar, E., "Binary Error Probabilities on Earth-Space Links Subject to Scintillation Fading," <i>Electronics Letters</i> , IEE, Vol. 21, No. 7, pp. 296-297 (March 28, 1985).

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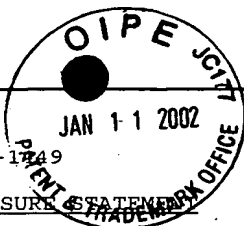
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DXN</i>	AA4	3,617,892	11/1971	Hawley et al.	325	145	✓
<i>DXN</i>	AB4	3,621,402	11/1971	Gardner	328	37	✓
<i>DXN</i>	AC4	3,623,160	11/1971	Giles et al.	340	347 DA	✓
<i>DXN</i>	AD4	3,626,417	12/1971	Gilbert	343	203	✓
<i>DXN</i>	AE4	3,629,696	12/1971	Bartelink	324	57 R	✓
<i>DXN</i>	AF4	3,662,268	05/1972	Gans et al.	325	56	✓
<i>DXN</i>	AG4	3,689,841	09/1972	Bello et al.	325	39	✓
<i>DXN</i>	AH4	3,714,577	01/1973	Hayes	325	145	✓
<i>DXN</i>	AI4	3,717,844	02/1973	Barret et al.	340	5 R	✓

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>DXN</i>	AJ4	EP 0 512 748 A2	11/1992	EP	H04N	9/64	N/A
<i>DXN</i>	AK4	EP 0 512 748 A3	07/1993	EP	H04N	9/64	N/A
<i>DXN</i>	AL4	EP 0 512 748 B1	11/1998	EP	H04N	9/64	N/A
<i>DXN</i>	AM4	EP 0 548 542 A1	06/1993	EP	H03B	19/14	N/A

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<i>DXN</i>	AN	4	Banjo, O.P. and Vilar, E., "The Dependence of Slant Path Amplitude Scintillations on Various Meteorological Parameters," <i>Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation</i> , IEE, pp. 277-280 (March 30 - April 2, 1987).
<i>DXN</i>	AO	4	Banjo, O.P. and Vilar, E. "Measurement and Modeling of Amplitude Scintillations on Low-Elevation Earth-Space Paths and Impact on Communication Systems," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. COM-34, No. 8, pp. 774-780 (August 1986).
<i>DXN</i>	AP	4	Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths," <i>Fourth International Conference on Antennas and Propagation (ICAP 85)</i> , IEE, pp. 77-82 (April 16-19, 1985).
<i>DXN</i>	AQ	4	Basili, P. et al., "Case Study of Intense Scintillation Events on the OTS Path," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).
<i>DXN</i>	AR	4	Basili, P. et al., "Observation of High C ² and Turbulent Path Length on OTS Space-Earth Link," <i>Electronics Letters</i> , IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).

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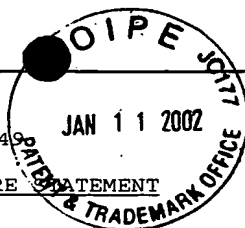
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DXN</i>	AA5	3,735,048	05/1973	Tomsa et al.	179	15 BM	
<i>DXN</i>	AB5	3,806,811	04/1974	Thompson	325	146	
<i>DXN</i>	AC5	3,868,601	02/1975	MacAfee	332	45	
<i>DXN</i>	AD5	3,949,300	04/1976	Sadler	325	31	
<i>DXN</i>	AE5	3,967,202	06/1976	Batz	325	31	
<i>DXN</i>	AF5	3,980,945	09/1976	Bickford	325	30	
<i>DXN</i>	AG5	3,987,280	10/1976	Bauer	235	150.53	
<i>DXN</i>	AH5	3,991,277	11/1976	Hirata	179	15 FD	
<i>DXN</i>	AI5	4,003,002	01/1977	Snijders et al.	332	10	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>DXN</i>	AJ5	EP 0 632 288 A2	01/1995	EP	G01S	13/75	N/A
<i>DXN</i>	AK5	EP 0 632 288 A3	07/1996	EP	G01S	13/75	N/A
<i>DXN</i>	AL5	EP 0 696 854 A1	02/1996	EP	H04B	1/26	N/A
<i>DXN</i>	AM5	EP 0 782 275 A2	07/1997	EP	H04B	7/02	N/A

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<i>DXN</i>	AN	<u>5</u>	Blakey, J.R. et al., "Measurement of Atmospheric Millimetre-Wave Phase Scintillations in an Absorption Region," <i>Electronics Letters</i> , IEE, Vol. 21, No. 11, pp. 486-487 (May 23, 1985).
<i>DXN</i>	AO	<u>5</u>	Burgueño, A. et al., "Influence of rain gauge integration time on the rain rate statistics used in microwave communications," <i>Annales des télécommunications</i> , International Union of Radio Science, pp. 522-527 (September/October 1988).
<i>DXN</i>	AP	<u>5</u>	Burgueño, A. et al., "Long-Term Joint Statistical Analysis of Duration and Intensity of Rainfall Rate with Application to Microwave Communications," <i>Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation</i> , IEE, pp. 198-201 (March 30 - April 2, 1987).
<i>DXN</i>	AQ	<u>5</u>	Burgueño, A. et al., "Long Term Statistics of Precipitation Rate Return Periods in the Context of Microwave Communications," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 297-301 (April 4-7, 1989).
<i>DXN</i>	AR	<u>5</u>	Burgueño, A. et al., "Spectral Analysis of 49 Years of Rainfall Rate and Relation to Fade Dynamics," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 9, pp. 1359-1366 (September 1990).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DXN</i>	AA6	4,013,966	03/1977	Campbell	325	363	
<i>DXN</i>	AB6	4,019,140	04/1977	Swerdlow	322	65	
<i>DXN</i>	AC6	4,035,732	07/1977	Lohrmann	325	446	
<i>DXN</i>	AD6	4,047,121	09/1977	Campbell	331	76	
<i>DXN</i>	AE6	4,066,841	01/1978	Young	178	66 R	
<i>DXN</i>	AF6	4,066,919	01/1978	Huntington	307	353	
<i>DXN</i>	AG6	4,081,748	03/1978	Batz	325	56	
<i>DXN</i>	AH6	4,130,765	12/1978	Arakelian et al.	307	220 R	
<i>DXN</i>	AI6	4,130,806	12/1978	Van Gerwen et al.	325	487	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>DXN</i>	AJ6	EP 0 785 635 A1	07/1997	EP	H04B	1/713	No
<i>DXN</i>	AK6	EP 0 795 978 A2	09/1997	EP	H04L	5/06	N/A
<i>DXN</i>	AL6	EP 0 837 565 A1	04/1998	EP	H04B	1/69	N/A
<i>DXN</i>	AM6	EP 0 862 274 A1	09/1998	EP	H03M	1/06	N/A

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<i>DXN</i>	AN	<u>6</u>	Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," <i>Electronics Letters</i> , IEE, Vol. 34, No. 12, pp. 1238-1240 (June 11, 1998).
<i>DXN</i>	AO	<u>6</u>	Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," <i>European Solid State Circuits Conference</i> , IEEE Communication Society, pp. 210-213 (September 22-24, 1993).
<i>DXN</i>	AP	<u>6</u>	Copy of Declaration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
<i>DXN</i>	AQ	<u>6</u>	Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
<i>DXN</i>	AR	<u>6</u>	Copy of Declaration of Alex Holtz filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.

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*C. Chow**Dang N. Nguyen*

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*8-4-03**5/15/03*

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<i>Don</i>	AA7	4,142,155	02/1979	Adachi	325	47	
<i>Don</i>	AB7	4,170,764	10/1979	Salz et al.	332	17	
<i>Don</i>	AC7	4,204,171	05/1980	Sutphin, Jr.	328	167	
<i>Don</i>	AD7	4,210,872	07/1980	Gregorian	330	9	
<i>Don</i>	AE7	4,245,355	01/1981	Pascoe et al.	455	326	
<i>Don</i>	AF7	4,253,066	02/1981	Fisher et al.	329	50	
<i>Don</i>	AG7	4,253,069	02/1981	Nossek	330	107	
<i>Don</i>	AH7	4,308,614	12/1981	Fisher et al.	370	119	
<i>Don</i>	AI7	4,320,361	03/1982	Kikkert	332	16 R	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>Don</i>	AJ7	EP 0 874 499 A2	10/1998	EP	H04L	25/06	N/A
<i>Don</i>	AK7	FR 2 743 231 A1	07/1997	FR	H04B	7/12	No
<i>Don</i>	AL7	GB 2 161 344 A	01/1986	GB	H04B	7/12	N/A
<i>Don</i>	AM7	GB 2 215 945 A	09/1989	GB	H04L	27/00	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Don</i>	AN	Z	Copy of Declaration of Richard C. Looke filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
<i>Don</i>	AO	Z	Copy of Declaration of Charley D. Moses, Jr. filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
<i>Don</i>	AP	Z	Copy of Declaration of Jeffrey L. Parker and David F. Sorrells, with attachment Exhibit 1, filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
<i>Don</i>	AQ	Z	Dewey, R.J. and Collier, C.J., "Multi-Mode Radio Receiver," Electronics Division Colloquium on Digitally Implemented Radios, IEE, pp. 3/1-3/5 (October 18, 1985).
<i>Don</i>	AR	Z	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-276351, published November 13, 1990, (1 Page).

EXAMINER

C. Chow *Donna K. Nguyen*

DATE CONSIDERED

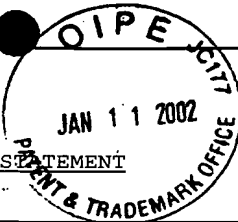
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<i>DXN</i>	AA8	4,320,536	03/1982	Dietrich	455	325	✓
<i>DXN</i>	AB8	4,346,477	08/1982	Gordy	455	257	✓
<i>DXN</i>	AC8	4,355,401	10/1982	Ikoma et al.	375	5	✓
<i>DXN</i>	AD8	4,356,558	10/1982	Owen et al.	364	724	✓
<i>DXN</i>	AE8	4,360,867	11/1982	Gonda	363	158	✓
<i>DXN</i>	AF8	4,363,132	12/1982	Collin	455	52	✓
<i>DXN</i>	AG8	4,365,217	12/1982	Berger et al.	333	165	✓
<i>DXN</i>	AH8	4,370,572	01/1983	Cosand et al.	307	353	✓
<i>DXN</i>	AI8	4,389,579	06/1983	Stein	307	353	✓

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
<i>DXN</i>	AJ8	JP 2-39632	02/1990	JP	H04B	7/12	No
<i>DXN</i>	AK8	JP 2-131629	05/1990	JP	H04B	7/12	No
<i>DXN</i>	AL8	JP 2-276351	11/1990	JP	H04L	27/22	No
<i>DXN</i>	AM8	WO 80/01633 A1	08/1980	PCT	H04J	1/08	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	8	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-131629, published May 21, 1990, (1 Page).
<i>DXN</i>	AO	8	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-39632, published February 8, 1990, (1 Page).
<i>DXN</i>	AP	8	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 0 785 635 A1, published December 26, 1996, (3 Pages).
<i>DXN</i>	AQ	8	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 35166 A1, published February 18, 1981, (2 Pages).
<i>DXN</i>	AR	8	"DSO takes sampling rate to 1 Ghz," <i>Electronic Engineering</i> , Morgan Grampian Publishers, Vol. 59, No. 723, pp. 77 and 79 (March 1987).

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DXN	AA9	4,392,255	07/1983	Del Giudice	455	328	
DXN	AB9	4,430,629	02/1984	Betzi et al.	333	165	
DXN	AC9	4,446,438	05/1984	Chang et al.	328	127	
DXN	AD9	4,456,990	06/1984	Fisher et al.	370	119	
DXN	AE9	4,472,785	09/1984	Kasuga	364	718	
DXN	AF9	4,479,226	10/1984	Prabhu et al.	375	1	
DXN	AG9	4,481,490	11/1984	Huntley	332	41	
DXN	AH9	4,481,642	11/1984	Hanson	375	9	
DXN	AI9	4,485,488	11/1984	Houdart	455	327	

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DXN	AJ9	WO 94/05087 A1	03/1994	PCT	H03M	1/00	N/A
DXN	AK9	WO 96/02977 A1	02/1996	PCT	H04B	1/26	N/A
DXN	AL9	WO 96/08078 A1	03/1996	PCT	H03D	3/00	N/A
DXN	AM9	WO 96/39750 A1	12/1996	PCT	H04B	1/26	N/A

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DXN	AN	9	Erdi, G. and Henneuse, P.R., "A Precision FET-Less Sample-and-Hold with High Charge-to-Droop Current Ratio," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-13, No. 6, pp. 864-873 (December 1978).
DXN	AO	9	Faulkner, N.D. and Vilar, E., "Subharmonic Sampling for the Measurement of Short Term Stability of Microwave Oscillators," <i>IEEE Transactions on Instrumentation and Measurement</i> , IEEE, Vol. IM-32, No. 1, pp. 208-213 (March 1983).
DXN	AP	9	Faulkner, N.D. et al., "Sub-Harmonic Sampling for the Accurate Measurement of Frequency Stability of Microwave Oscillators," <i>CPEM 82 Digest: Conference on Precision Electromagnetic Measurements</i> , IEEE, pp. M-10 and M-11 (1982).
DXN	AQ	9	Faulkner, N.D. and Vilar, E., "Time Domain Analysis of Frequency Stability Using Non-Zero Dead-Time Counter Techniques," <i>CPEM 84 Digest Conference on Precision Electromagnetic Measurements</i> , IEEE, pp. 81-82 (1984).
DXN	AR	9	Filip, M. and Vilar, E., "Optimum Utilization of the Channel Capacity of a Satellite Link in the Presence of Amplitude Scintillations and Rain Attenuation," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 11, pp. 1958-1965 (November 1990).

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DXN	AA10	4,504,803	03/1985	Lee et al.	332	31 R	
DXN	AB10	4,517,519	05/1985	Mukaiyama	329	126	
DXN	AC10	4,517,520	05/1985	Ogawa	329	145	
DXN	AD10	4,518,935	05/1985	van Roermund	333	173	
DXN	AE10	4,521,892	06/1985	Vance et al.	375	88	
DXN	AF10	4,563,773	07/1986	Dixon, Jr. et al.	455	327	
DXN	AG10	4,577,157	03/1986	Reed	329	50	
DXN	AH10	4,583,239	04/1986	Vance	375	94	
DXN	AI10	4,591,736	05/1986	Hirao et al.	307	267	

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DXN	AJ10	WO 97/38490 A1	10/1997	PCT	H03K	7/00	N/A
DXN	AK10	WO 98/00953 A1	01/1998	PCT	H04L	27/26	N/A
DXN	AL10	WO 98/24201 A1	06/1998	PCT	H04H	1/00	N/A
DXN	AM10	EP 0 099 265 A1	01/1984	EP	H03D	3/04	N/A

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DXN	AN	10	Fukahori, K., "A CMOS Narrow-Band Signaling Filter with Q Reduction," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-19, No. 6, pp. 926-932 (December 1984).
DXN	AO	10	Fukuchi, H. and Otsu, Y., "Available time statistics of rain attenuation on earth-space path," <i>IEE Proceedings-H: Microwaves, Antennas and Propagation</i> , IEE, Vol. 135, Pt. H, No. 6, pp. 387-390 (December 1988).
DXN	AP	10	Gibbins, C.J. and Chadha, R., "Millimetre-wave propagation through hydrocarbon flame," <i>IEE Proceedings</i> , IEE, Vol. 134, Pt. H, No.2, pp. 169-173 (April 1987).
DXN	AQ	10	Gilchrist, B. et al., "Sampling hikes performance of frequency synthesizers," <i>Microwaves & RF</i> , Hayden Publishing, Vol. 23, No. 1, pp. 93-94 and 110 (January 1984).
DXN	AR	10	Gossard, E.E., "Clear weather meteorological effects on propagation at frequencies above 1 Ghz," <i>Radio Science</i> , American Geophysical Union, Vol. 16, No. 5, pp. 589-608 (September - October 1981).

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<i>DPN</i>	AA11	4,602,220	07/1986	Kurihara	331	19	
<i>DPN</i>	AB11	4,603,300	07/1986	Welles, II et al.	329	50	
<i>DPN</i>	AC11	4,612,464	09/1986	Ishikawa et al.	307	496	
<i>DPN</i>	AD11	4,612,518	09/1986	Gans et al.	332	21	
<i>DPN</i>	AE11	4,616,191	10/1986	Galani et al.	331	4	
<i>DPN</i>	AF11	4,621,217	11/1986	Saxe et al.	315	1	
<i>DPN</i>	AG11	4,628,517	12/1986	Schwarz et al.	375	40	
<i>DPN</i>	AH11	4,634,998	01/1987	Crawford	331	1 A	
<i>DPN</i>	AI11	4,648,021	03/1987	Alberkrack	363	157	

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<i>DPN</i>	AJ11	EP 0 560 228 A1	09/1993	EP	H03D	7/12	N/A
<i>DPN</i>	AK11	FR 2 245 130	04/1975	FR	H03K	5/13	Yes (See AP50)
<i>DPN</i>	AL11	DE 35 41 031 A1	05/1986	DE	H03D	3/00	Yes (See AR50)
<i>DPN</i>	AM11	EP 0 732 803 A1	09/1996	EP	H03D	3/00	Yes (See AN51)

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DPN</i>	AN	<u>11</u>	Gregorian, R. et al., "Switched-Capacitor Circuit Design," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 941-966 (August 1983).
<i>DPN</i>	AO	<u>11</u>	Groshong et al., "Undersampling Techniques Simplify Digital Radio," <i>Electronic Design</i> , Penton Publishing, pp. 67-68, 70, 73-75 and 78 (May 23, 1991).
<i>DPN</i>	AP	<u>11</u>	Grove, W.M., "Sampling for Oscilloscopes and Other RF Systems: Dc through X-Band," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, pp. 629-635 (December 1966).
<i>DPN</i>	AQ	<u>11</u>	Haddon, J. et al., "Measurement of Microwave Scintillations on a Satellite Down-Link at X-Band," <i>Antennas and Propagation</i> , IEE, pp. 113-117 (1981).
<i>DPN</i>	AR	<u>11</u>	Haddon, J. and Vilar, E., "Scattering Induced Microwave Scintillations from Clear Air and Rain on Earth Space Paths and the Influence of Antenna Aperture," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE, Vol. AP-34, No. 5, pp. 646-657 (May 1986).

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DPN	AA12	4,651,034	03/1987	Sato	307	556	✓
DPN	AB12	4,675,882	06/1987	Lillie et al.	375	80	✓
DPN	AC12	4,688,253	08/1987	Gumm	381	7	✓
DPN	AD12	4,716,376	12/1987	Daudelin	329	107	✓
DPN	AE12	4,716,388	12/1987	Jacobs	333	173	✓
DPN	AF12	4,718,113	01/1988	Rother et al.	455	209	✓
DPN	AG12	4,726,041	02/1988	Prohaska et al.	375	91	✓
DPN	AH12	4,733,403	03/1988	Simone	375	103	✓
DPN	AI12	4,734,591	03/1988	Ichitsubo	307	219.1	✓

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
DPN	AJ12	DE 197 35 798 C1	07/1998	DE	H04L	27/00	Yes (See AP51)
DPN	AK12	WO 98/40968 A2&A3	09/1998	PCT	H03L	7/08	N/A
DPN	AL12	EP 0 529 836 A1	03/1993	EP	H03L	7/089	N/A
DPN	AM12	EP 0 795 955 A2&A3	09/1997	EP	H03D	13/00	N/A

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DPN	AN	12	Hafidallah, H. et al., "2-4 Ghz MESFET Sampler," <i>Electronics Letters</i> , IEE, Vol. 24, No. 3, pp. 151-153 (February 4, 1988).
DPN	AO	12	Herben, M.H.A.J., "Amplitude and Phase Scintillation Measurements on 8-2 km Line-Of-Sight Path at 30 Ghz," <i>Electronics Letters</i> , IEE, Vol. 18, No. 7, pp. 287-289 (April 1, 1982).
DPN	AP	12	Hewitt, A. et al., "An 18 Ghz Wideband LOS Multipath Experiment," <i>International Conference on Measurements for Telecommunication Transmission Systems - MTTs 85</i> , IEE, pp. 112-116 (November 27-28, 1985).
DPN	AQ	12	Hewitt, A. et al., "An Autoregressive Approach to the Identification of Multipath Ray Parameters from Field Measurements," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 37, No. 11, pp. 1136-1143 (November 1989).
DPN	AR	12	Hewitt, A. and Vilar, E., "Selective fading on LOS Microwave Links: Classical and Spread-Spectrum Measurement Techniques," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 36, No. 7, pp. 789-796 (July 1988).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DXN</i>	AA13	4,737,969	04/1988	Steel et al.	375	67	
<i>DXN</i>	AB13	4,743,858	05/1988	Everard	330	10	
<i>DXN</i>	AC13	4,745,463	05/1988	Lu	358	23	
<i>DXN</i>	AD13	4,751,468	06/1988	Agoston	328	133	
<i>DXN</i>	AE13	4,757,538	07/1988	Zink	381	7	
<i>DXN</i>	AF13	4,768,187	08/1988	Marshall	370	69.1	
<i>DXN</i>	AG13	4,769,612	09/1988	Tamakoshi et al.	328	167	
<i>DXN</i>	AH13	4,785,463	11/1988	Janc et al.	375	1	
<i>DXN</i>	AI13	4,791,584	12/1988	Greivenkamp, Jr.	364	525	

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<i>DXN</i>	AJ13	EP 0 817 369 A2&A3	01/1998	EP	H03D	7/00	N/A
<i>DXN</i>	AK13	WO 91/18445 A1	11/1991	PCT	H03D	7/18	N/A
<i>DXN</i>	AL13	WO 99/23755 A1	05/1999	PCT	H03D	7/16	N/A
<i>DXN</i>	AM13	JP 56-114451	09/1981	JP	H04B	7/02	No

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<i>DXN</i>	AO	<u>13</u>	Howard, I.M. and Swansson, N.S., "Demodulating High Frequency Resonance Signals for Bearing Fault Detection," The Institution of Engineers Australia Vibration and Noise Conference, Institution of Engineers, Australia, pp. 115-121 (September 18-20, 1990).
<i>DXN</i>	AP	<u>13</u>	Hu, X., A Switched-Current Sample-and-Hold Amplifier for FM Demodulation, Thesis for Master of Applied Science, Dept. of Electrical and Computer Engineering, University of Toronto, UMI Dissertation Services, pp. 1-64 (1995).
<i>DXN</i>	AQ	<u>13</u>	Hung, H-L. A. et al., "Characterization of Microwave Integrated Circuits Using An Optical Phase-Locking and Sampling System," IEEE MTT-S Digest, IEEE, pp. 507-510 (1991).
<i>DXN</i>	AR	<u>13</u>	Hurst, P.J., "Shifting the Frequency Response of Switched-Capacitor Filters by Nonuniform Sampling," IEEE Transactions on Circuits and Systems, IEEE Circuits and Systems Society, Vol. 38, No. 1, pp. 12-19 (January 1991).

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<i>DXN</i>	AA14	4,801,823	01/1989	Yokoyama	307	353	
<i>DXN</i>	AB14	4,806,790	02/1989	Sone	307	353	
<i>DXN</i>	AC14	4,810,904	03/1989	Crawford	307	353	
<i>DXN</i>	AD14	4,810,976	03/1989	Cowley et al.	331	117 R	
<i>DXN</i>	AE14	4,811,362	03/1989	Yester, Jr. et al.	375	75	
<i>DXN</i>	AF14	4,819,252	04/1989	Christopher	375	122	
<i>DXN</i>	AG14	4,833,445	05/1989	Buchele	341	118	
<i>DXN</i>	AH14	4,862,121	08/1989	Hochschild et al.	333	173	
<i>DXN</i>	AI14	4,868,654	09/1989	Juri et al.	358	133	

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<i>DXN</i>	AJ14	JP 8-32556	02/1996	JP	H04L	1/04	No
<i>DXN</i>	AK14	JP 8-139524	05/1996	JP	H03D	7/00	No
<i>DXN</i>	AL14	JP 59-144249	08/1984	JP	H04L	27/00	No
<i>DXN</i>	AM14	JP 63-54002	03/1988	JP	H03B	19/114	No

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<i>DXN</i>	AO	14	Janssen, J.M.L., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: I. Fundamentals," Philips Technical Review, Philips Research Laboratories, Vol. 12, No. 2, pp. 52-59 (August 1950).
<i>DXN</i>	AP	14	Janssen, J.M.L. and Michels, A.J., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: II. Electrical Build-Up," Philips Technical Review, Philips Research Laboratories, Vol. 12, No. 3, pp. 73-82 (September 1950).
<i>DXN</i>	AQ	14	Jondral, V.F. et al., "Doppler Profiles for Communication Satellites," Frequenz, Herausberger, pp. 111-116 (May-June 1996).
<i>DXN</i>	AR	14	Kaleh, G.K., "A Frequency Diversity Spread Spectrum System for Communication in the Presence of In-band Interference," 1995 IEEE Globecom, IEEE Communications Society, pp. 66-70 (1995).

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<i>Don</i>	AA15	4,870,659	09/1989	Oishi et al.	375	82	
<i>Don</i>	AB15	4,871,987	10/1989	Kawase	332	100	
<i>Don</i>	AC15	4,885,587	12/1989	Wiegand et al.	42	14	
<i>Don</i>	AD15	4,885,756	12/1989	Fontanes et al.	375	82	
<i>Don</i>	AE15	4,888,557	12/1989	Puckette, IV et al.	329	341	
<i>Don</i>	AF15	4,890,302	12/1989	Muilwijk	375	80	
<i>Don</i>	AG15	4,893,316	01/1990	Janc et al.	375	44	
<i>Don</i>	AH15	4,893,341	01/1990	Gehring	381	7	
<i>Don</i>	AI15	4,894,766	01/1990	De Agro	363	159	

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<i>Don</i>	AJ15	JP 6-237276	08/1994	JP	H04L	27/20	No
<i>Don</i>	AK15	JP 8-23359	01/1996	JP	H04L	27/20	No
	AL15						Yes No
	AM15						Yes No

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<i>Don</i>	AN	<u>15</u>	Karasawa, Y. et al., "A New Prediction Method for Tropospheric Scintillation on Earth-Space Paths," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE Antennas and Propagation Society, Vol. 36, No. 11, pp. 1608-1614 (November 1988).
<i>Don</i>	AO	<u>15</u>	Kirsten, J. and Fleming, J., "Undersampling reduces data-acquisition costs for select applications," <i>EDN</i> , Cahners Publishing, Vol. 35, No. 13, pp. 217-222, 224, 226-228 (June 21, 1990).
<i>Don</i>	AP	<u>15</u>	Lam, W.K. et al., "Measurement of the Phase Noise Characteristics of an Unlocked Communications Channel Identifier," <i>Proceedings Of the 1993 IEEE International Frequency Control Symposium</i> , IEEE, pp. 283-288 (June 2-4, 1993).
<i>Don</i>	AQ	<u>15</u>	Lam, W.K. et al., "Wideband sounding of 11.6 Ghz transhorizon channel," <i>Electronics Letters</i> , IEE, Vol. 30, No. 9, pp. 738-739 (April 28, 1994).
<i>Don</i>	AR	<u>15</u>	Larkin, K.G., "Efficient demodulator for bandpass sampled AM signals," <i>Electronics Letters</i> , IEE, Vol. 32, No. 2, pp. 101-102 (January 18, 1996).

EXAMINER

C. Chow Dong Ho Nguyen

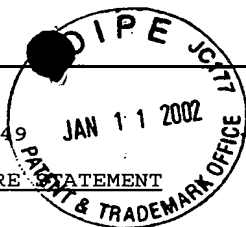
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0260001APPLICATION NO.
09/476,093APPLICANT
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DXN</i>	AA16	4,896,152	01/1990	Tiemann	340	853	✓
<i>DXN</i>	AB16	4,902,979	02/1990	Puckette, IV	329	343	✓
<i>DXN</i>	AC16	4,908,579	03/1990	Tawfik et al.	328	167	✓
<i>DXN</i>	AD16	4,910,752	03/1990	Yester, Jr. et al.	375	75	✓
<i>DXN</i>	AE16	4,914,405	04/1990	Wells	331	25	✓
<i>DXN</i>	AF16	4,920,510	04/1990	Senderowicz et al.	364	825	✓
<i>DXN</i>	AG16	4,922,452	05/1990	Larsen et al.	365	45	✓
<i>DXN</i>	AH16	4,931,921	06/1990	Anderson	363	163	✓
<i>DXN</i>	AI16	4,944,025	07/1990	Gehring et al.	455	207	✓

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ16						Yes No
	AK16						Yes No
	AL16						Yes No
	AM16						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	<u>16</u>	Lau, W.H. et al., "Analysis of the Time Variant Structure of Microwave Line-of-sight Multipath Phenomena," IEEE Global Telecommunications Conference & Exhibition, IEEE, pp. 1707-1711 (November 28 - December 1, 1988).
<i>DXN</i>	AO	<u>16</u>	Lau, W.H. et al., "Improved Prony Algorithm to Identify Multipath Components," Electronics Letters, IEE, Vol. 23, No. 20, pp. 1059-1060 (September 24, 1987).
<i>DXN</i>	AP	<u>16</u>	Lesage, P. and Audoin, C., "Effect of Dead-Time on the Estimation of the Two-Sample Variance," IEEE Transactions on Instrumentation and Measurement, IEEE Instrumentation and Measurement Society, Vol. IM-28, No. 1, pp. 6-10 (March 1979).
<i>DXN</i>	AQ	<u>16</u>	Liechti, C.A., "Performance of Dual-gate GaAs MESFET's as Gain-Controlled Low-Noise Amplifiers and High-Speed Modulators," IEEE Transactions on Microwave Theory and Techniques, IEEE Microwave Theory and Techniques Society, Vol. MTT-23, No. 6, pp. 461-469 (June 1975).
<i>DXN</i>	AR	<u>16</u>	Linnenbrink, T.E. et al., "A One Gigasample Per Second Transient Recorder," IEEE Transactions on Nuclear Science, IEEE Nuclear and Plasma Sciences Society, Vol. NS-26, No. 4, pp. 4443-4449 (August 1979).

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Jimmy Ho Nguyen

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<i>DXN</i>	AA17	4,955,079	09/1990	Connerney et al.	455	325	
<i>DXN</i>	AB17	4,965,467	10/1990	Bilteerijst	307	352	
<i>DXN</i>	AC17	4,967,160	10/1990	Quievy et al.	328	16	
<i>DXN</i>	AD17	4,970,703	11/1990	Hariharan et al.	367	138	
<i>DXN</i>	AE17	4,982,353	01/1991	Jacob et al.	364	724.10	
<i>DXN</i>	AF17	4,984,077	01/1991	Uchida	358	140	
<i>DXN</i>	AG17	4,995,055	02/1991	Weinberger et al.	375	5	
<i>DXN</i>	AH17	5,003,621	03/1991	Gailus	455	209	
<i>DXN</i>	AI17	5,005,169	04/1991	Bronder et al.	370	76	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ17						Yes No
	AK17						Yes No
	AL17						Yes No
	AM17						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	<u>17</u>	Liou, M.L., "A Tutorial on Computer-Aided Analysis of Switched-Capacitor Circuits," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 987-1005 (August 1983).
<i>DXN</i>	AO	<u>17</u>	Lo, P. et al., "Coherent Automatic Gain Control," <i>IEE Colloquium on Phase Locked Techniques</i> , IEE, pp. 2/1-2/6 (March 26, 1980).
<i>DXN</i>	AP	<u>17</u>	Lo, P. et al., "Computation of Rain Induced Scintillations on Satellite Down-Links at Microwave Frequencies," <i>Third International Conference on Antennas and Propagation (ICAP 83)</i> , pp. 127-131 (April 12-15, 1983).
<i>DXN</i>	AQ	<u>17</u>	Lo, P.S.L.O. et al., "Observations of Amplitude Scintillations on a Low-Elevation Earth-Space Path," <i>Electronics Letters</i> , IEE, Vol. 20, No. 7, pp. 307-308 (March 29, 1984).
<i>DXN</i>	AR	<u>17</u>	Madani, K. and Aithison, C.S., "A 20 Ghz Microwave Sampler," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE Microwave Theory and Techniques Society, Vol. 40, No. 10, pp. 1960-1963 (October 1992).

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C. Chow *Sang Ho Nguyen*

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<i>DXN</i>	AA18	5,006,810	04/1991	Popescu	328	167	✓
<i>DXN</i>	AB18	5,010,585	04/1991	Garcia	455	118	✓
<i>DXN</i>	AC18	5,014,304	05/1991	Nicollini et al.	379	399	✓
<i>DXN</i>	AD18	5,015,963	05/1991	Sutton	329	361	✓
<i>DXN</i>	AE18	5,017,924	05/1991	Guiberteau et al.	342	195	✓
<i>DXN</i>	AF18	5,020,149	05/1991	Hemmie	455	325	✓
<i>DXN</i>	AG18	5,020,154	05/1991	Zierhut	455	608	✓
<i>DXN</i>	AH18	5,052,050	09/1991	Collier et al.	455	296	✓
<i>DXN</i>	AI18	5,065,409	11/1991	Hughes et al.	375	91	✓

FOREIGN PATENT DOCUMENTS

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	AJ18						Yes No
	AK18						Yes No
	AL18						Yes No
	AM18						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	<u>18</u>	Marsland, R.A. et al., "130 Ghz GaAs monolithic integrated circuit sampling head," Appl. Phys. Lett., American Institute of Physics, Vol. 55, No. 6, pp. 592-594 (August 7, 1989).
<i>DXN</i>	AO	<u>18</u>	Martin, K. and Sedra, A.S., "Switched-Capacitor Building Blocks for Adaptive Systems," IEEE Transactions on Circuits and Systems, IEEE Circuits and Systems Society, Vol. CAS-28, No. 6, pp. 576-584 (June 1981).
<i>DXN</i>	AP	<u>18</u>	Marzano, F.S. and d'Auria, G., "Model-based Prediction of Amplitude Scintillation variance due to Clear-Air Tropospheric Turbulence on Earth-Satellite Microwave Links," IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society, Vol. 46, No. 10, pp. 1506-1518 (October 1998).
<i>DXN</i>	AQ	<u>18</u>	Matricciani, E., "Prediction of fade durations due to rain in satellite communication systems," Radio Science, American Geophysical Union, Vol. 32, No. 3, pp. 935-941 (May-June 1997).
<i>DXN</i>	AR	<u>18</u>	McQueen, J.G., "The Monitoring of High-Speed Waveforms," Electronic Engineering, Morgan Brothers Limited, Vol. XXIV, No. 296, pp. 436-441 (October 1952).

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DXN	AA19	5,083,050	01/1992	Vasile	307	529	1
DXN	AB19	5,091,921	02/1992	Minami	375	88	1
DXN	AC19	5,095,533	03/1992	Loper et al.	455	245	1
DXN	AD19	5,095,536	03/1992	Loper	455	324	1
DXN	AE19	5,111,152	05/1992	Makino	329	300	1
DXN	AF19	5,113,094	05/1992	Grace et al.	307	529	1
DXN	AG19	5,113,129	05/1992	Hughes	323	316	1
DXN	AH19	5,122,765	06/1992	Pataut	332	105	1
DXN	AI19	5,124,592	06/1992	Hagino	307	520	1

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	AJ19						Yes No
	AK19						Yes No
	AL19						Yes No
	AM19						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DXN	AN	19	Merkelo, J. and Hall, R.D., "Broad-Band Thin-Film Signal Sampler," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-7, No. 1, pp. 50-54 (February 1972).
DXN	AO	19	Merlo, U. et al., "Amplitude Scintillation Cycles in a Sirio Satellite-Earth Link," <i>Electronics Letters</i> , IEE, Vol. 21, No. 23, pp. 1094-1096 (November 7, 1985).
DXN	AP	19	Morris, D., "Radio-holographic reflector measurement of the 30-m millimeter radio telescope at 22 Ghz with a cosmic signal source," <i>Astronomy and Astrophysics</i> , Springer-Verlag, Vol. 203, No. 2, pp. 399-406 (September (II) 1988).
DXN	AQ	19	Moulsley, T.J. et al., "The efficient acquisition and processing of propagation statistics," <i>Journal of the Institution of Electronic and Radio Engineers</i> , IERE, Vol. 55, No. 3, pp. 97-103 (March 1985).
DXN	AR	19	Ndizi, D. et al., "Wide-Band Statistical Characterization of an Over-the-Sea Experimental Transhorizon Link," <i>IEE Colloquium on Radio Communications at Microwave and Millimetre Wave Frequencies</i> , IEE, pp. 1/1-1/6 (December 16, 1996).

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DXN	AA20	5,136,267	08/1992	Cabot	333	174	
DXN	AB20	5,140,705	08/1992	Kosuga	455	318	
DXN	AC20	5,150,124	09/1992	Moore et al.	342	68	
DXN	AD20	5,151,661	09/1992	Caldwell et al.	328	14	
DXN	AE20	5,159,710	10/1992	Cusdin	455	304	
DXN	AF20	5,170,414	12/1992	Silvian	375	59	
DXN	AG20	5,172,070	12/1992	Hiraiwa et al.	329	304	
DXN	AH20	5,191,459	03/1993	Thompson et al.	359	133	
DXN	AI20	5,204,642	04/1993	Ashgar et al.	331	135	

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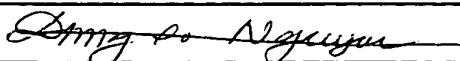
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ20						Yes No
	AK20						Yes No
	AL20						Yes No
	AM20						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DXN	AN	20	Ndzi, D. et al., "Wideband Statistics of Signal Levels and Doppler Spread on an Over-The-Sea Transhorizon Link," IEE Colloquium on Propagation Characteristics and Related System Techniques for Beyond Line-of-Sight Radio, IEE, pp. 9/1-9/6 (November 24, 1997).
DXN	AO	20	"New zero IF chipset from Philips," Electronic Engineering, United News & Media, Vol. 67, No. 825, p. 10 (September 1995).
DXN	AP	20	Ohara, H. et al., "First monolithic PCM filter cuts cost of telecomm systems," Electronic Design, Hayden Publishing Company, Vol. 27, No. 8, pp. 130-135 (April 12, 1979).
DXN	AQ	20	Oppenheim, A.V. et al., Signals and Systems, Prentice-Hall, pp. 527-531 and 561-562 (1983).
DXN	AR	20	Ortgies, G., "Experimental Parameters Affecting Amplitude Scintillation Measurements on Satellite Links," Electronics Letters, IEE, Vol. 21, No. 17, pp. 771-772 (August 15, 1985).

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<i>DAN</i>	AA21	5,212,827	05/1993	Meszko et al.	455	219	✓
<i>DAN</i>	AB21	5,214,787	05/1993	Karkota, Jr.	455	3.2	✓
<i>DAN</i>	AC21	5,220,583	06/1993	Solomon	375	82	✓
<i>DAN</i>	AD21	5,220,680	06/1993	Lee	455	102	✓
<i>DAN</i>	AE21	5,222,144	06/1993	Whikehart	381	15	✓
<i>DAN</i>	AF21	5,230,097	07/1993	Currie et al.	455	226.1	✓
<i>DAN</i>	AG21	5,239,686	08/1993	Downey	455	78	✓
<i>DAN</i>	AH21	5,241,561	08/1993	Barnard	375	1	✓
<i>DAN</i>	AI21	5,249,203	09/1993	Loper	375	97	✓

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	AJ21						Yes No
	AK21						Yes No
	AL21						Yes No
	AM21						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DAN</i>	AN	<u>21</u>	Pärssinen et al., "A 2-GHz Subharmonic Sampler for Signal Downconversion," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, Vol. 45, No. 12, 7 pages (December 1997).
<i>DAN</i>	AO	<u>21</u>	Peeters, G. et al., "Evaluation of Statistical Models for Clear-Air Scintillation Prediction Using Olympus Satellite Measurements," <i>International Journal of Satellite Communications</i> , John Wiley and Sons, Vol. 15, No. 2, pp. 73-88 (March-April 1997).
<i>DAN</i>	AP	<u>21</u>	Perrey, A.G. and Schoenwetter, H.K., <i>NBS Technical Note 1121: A Schottky Diode Bridge Sampling Gate</i> , U.S. Dept. of Commerce, pp. 1-14 (May 1980).
<i>DAN</i>	AQ	<u>21</u>	Poulton, K. et al., "A 1-GHz 6-bit ADC System," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-22, No. 6, pp. 962-969 (December 1987).
<i>DAN</i>	AR	<u>21</u>	Press Release, "Parkervision, Inc. Announces Fiscal 1993 Results," Lippert/Heilshorn and Associates, 2 Pages (April 6, 1994).

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<i>DXN</i>	AA22	5,251,218	10/1993	Stone et al.	370	120	
<i>DXN</i>	AB22	5,251,232	10/1993	Nonami	375	5	
<i>DXN</i>	AC22	5,260,970	11/1993	Henry et al.	375	10	
<i>DXN</i>	AD22	5,263,194	11/1993	Ragan	455	316	
<i>DXN</i>	AE22	5,263,196	11/1993	Jasper	455	324	
<i>DXN</i>	AF22	5,267,023	11/1993	Kawasaki	358	23	
<i>DXN</i>	AG22	5,278,826	01/1994	Murphy et al.	370	76	
<i>DXN</i>	AH22	5,282,023	01/1994	Scarpa	358	36	
<i>DXN</i>	AI22	5,287,516	02/1994	Schaub	375	88	

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	AJ22						Yes No
	AK22						Yes No
	AL22						Yes No
	AM22						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	<u>22</u>	Press Release, "Parkervision, Inc. Announces the Appointment of Michael Baker to the New Position of National Sales Manager," Lippert/Heilshorn and Associates, 1 Page (April 7, 1994).
<i>DXN</i>	AO	<u>22</u>	Press Release, "Parkervision's Cameraman Well-Received By Distance Learning Market," Lippert/Heilshorn and Associates, 2 Pages (April 8, 1994).
<i>DXN</i>	AP	<u>22</u>	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994).
<i>DXN</i>	AQ	<u>22</u>	Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994).
<i>DXN</i>	AR	<u>22</u>	Press Release, "Parkervision, Inc. Announces New Cameraman System II™ At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994).

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C. Chow *Dr. P. Nguyen*

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<i>DN</i>	AA23	5,293,398	03/1994	Hamao et al.	375	1	
<i>DN</i>	AB23	5,303,417	04/1994	Laws	455	314	
<i>DN</i>	AC23	5,307,517	04/1994	Rich	455	306	
<i>DN</i>	AD23	5,315,583	05/1994	Murphy et al.	370	18	
<i>DN</i>	AE23	5,321,852	06/1994	Seong	455	182.1	
<i>DN</i>	AF23	5,325,204	06/1994	Scarpa	348	607	
<i>DN</i>	AG23	5,337,014	08/1994	Najle et al.	324	613	
<i>DN</i>	AH23	5,339,054	08/1994	Taguchi	332	100	
<i>DN</i>	AI23	5,339,459	08/1994	Schiltz et al.	455	333	

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	AJ23						Yes No
	AK23						Yes No
	AL23						Yes No
	AM23						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DN</i>	AN	<u>23</u>	Press Release, "Parkervision, Inc. Announces Appointments to its National Sales Force," Lippert/Heilshorn and Associates, 2 Pages (June 17, 1994).
<i>DN</i>	AO	<u>23</u>	Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (August 9, 1994).
<i>DN</i>	AP	<u>23</u>	Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (October 28, 1994).
<i>DN</i>	AQ	<u>23</u>	Press Release, "Parkervision, Inc. Announces First Significant Dealer Sale of Its Cameraman® System II," Lippert/Heilshorn and Associates, 2 Pages (November 7, 1994).
<i>DN</i>	AR	<u>23</u>	Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Lippert/Heilshorn and Associates, 2 Pages (March 1, 1995).

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Samy A. Nguyen

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DPN	AA24	5,355,114	10/1994	Sutterlin et al.	340	310 A	
DPN	AB24	5,361,408	11/1994	Watanabe et al.	455	324	
DPN	AC24	5,369,800	11/1994	Takagi et al.	455	59	
DPN	AD24	5,375,146	12/1994	Chalmers	375	103	
DPN	AE24	5,379,040	01/1995	Mizomoto et al.	341	143	
DPN	AF24	5,379,141	01/1995	Thompson et al.	359	125	
DPN	AG24	5,388,063	02/1995	Takatori et al.	364	724.17	
DPN	AH24	5,390,364	02/1995	Webster et al.	455	52.3	
DPN	AI24	5,400,084	03/1995	Scarpa	348	624	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ24						Yes No
	AK24						Yes No
	AL24						Yes No
	AM24						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DPN	AN	24	Press Release, "Parkervision, Inc. Announces Joint Product Developments With VTEL," Lippert/Heilshorn and Associates, 2 Pages (March 21, 1995).
DPN	AO	24	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 3 Pages (April 28, 1995).
DPN	AP	24	Press Release, "Parkervision Wins Top 100 Product Districts' Choice Award," Parkervision Marketing and Manufacturing Headquarters, 1 Page (June 29, 1995).
DPN	AQ	24	Press Release, "Parkervision National Sales Manager Next President of USDLA," Parkervision Marketing and Manufacturing Headquarters, 1 Page (July 6, 1995).
DPN	AR	24	Press Release, "Parkervision Granted New Patent," Parkervision Marketing and Manufacturing Headquarters, 1 Page (July 21, 1995).

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0260001APPLICATION NO.
09/476,093APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2631

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DN</i>	AA25	5,404,127	04/1995	Lee et al.	340	310.02	✓
<i>DN</i>	AB25	5,410,541	04/1995	Hotto	370	76	✓
<i>DN</i>	AC25	5,410,743	04/1995	Seely et al.	455	326	✓
<i>DN</i>	AD25	5,412,352	05/1995	Graham	332	103	✓
<i>DN</i>	AE25	5,416,803	05/1995	Janer	375	324	✓
<i>DN</i>	AF25	5,422,913	06/1995	Wilkinson	375	347	✓
<i>DN</i>	AG25	5,423,082	06/1995	Cygan et al.	455	126	✓
<i>DN</i>	AH25	5,428,638	06/1995	Cioffi et al.	375	224	✓
<i>DN</i>	AI25	5,428,640	06/1995	Townley	375	257	✓

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ25						Yes No
	AK25						Yes No
	AL25						Yes No
	AM25						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DN</i>	AN	<u>25</u>	Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 31, 1995).
<i>DN</i>	AO	<u>25</u>	Press Release, "Parkervision, Inc. Expands Its Cameraman System II Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (September 22, 1995).
<i>DN</i>	AP	<u>25</u>	Press Release, "Parkervision Announces New Camera Control Technology," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 25, 1995).
<i>DN</i>	AQ	<u>25</u>	Press Release, "Parkervision, Inc. Announces Completion of VTEL/Parkervision Joint Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1995).
<i>DN</i>	AR	<u>25</u>	Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1995).

EXAMINER

C. Chow

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DXN</i>	AA26	5,434,546	07/1995	Palmer	332	151	✓
<i>DXN</i>	AB26	5,438,692	08/1995	Mohindra	455	324	✓
<i>DXN</i>	AC26	5,444,415	08/1995	Dent et al.	329	302	✓
<i>DXN</i>	AD26	5,444,416	08/1995	Ishikawa et al.	329	341	✓
<i>DXN</i>	AE26	5,444,865	08/1995	Heck et al.	455	86	✓
<i>DXN</i>	AF26	5,446,421	08/1995	Kechkaylo	332	100	✓
<i>DXN</i>	AG26	5,446,422	08/1995	Mattila et al.	332	103	✓
<i>DXN</i>	AH26	5,448,602	09/1995	Ohmori et al.	375	347	✓
<i>DXN</i>	AI26	5,451,899	09/1995	Lawton	329	302	✓

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ26						Yes No
	AK26						Yes No
	AL26						Yes No
	AM26						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	<u>26</u>	Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995).
<i>DXN</i>	AO	<u>26</u>	Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).
<i>DXN</i>	AP	<u>26</u>	Press Release, "ParkerVision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (February 27, 1996).
<i>DXN</i>	AQ	<u>26</u>	Press Release, "ParkerVision, Inc. Expands its Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 7, 1996).
<i>DXN</i>	AR	<u>26</u>	Press Release, "ParkerVision Files Patents for its Research of Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 1 Page (March 28, 1996).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DPN	AA27	5,454,007	09/1995	Dutta	375	322	
DPN	AB27	5,454,009	09/1995	Fruit et al.	372	202	
DPN	AC27	5,463,356	10/1995	Palmer	332	117	
DPN	AD27	5,463,357	10/1995	Hobden	332	151	
DPN	AE27	5,465,071	11/1995	Kobayashi et al.	329	315	
DPN	AF27	5,465,410	11/1995	Hiben et al.	455	266	
DPN	AG27	5,465,415	11/1995	Bien	455	326	
DPN	AH27	5,471,162	11/1995	McEwan	327	92	
DPN	AI27	5,479,120	12/1995	McEwan	327	91	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ27						Yes No
	AK27						Yes No
	AL27						Yes No
	AM27						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DPN	AN	27	Press Release, "Parkervision, Inc. Announces First Significant Sale of Its Cameraman® Three-Chip System," Parkervision Marketing and Manufacturing Headquarters, 2 pages (April 12, 1996).
DPN	AO	27	Press Release, "Parkervision, Inc. Introduces New Product Line For Studio Production Market," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1996).
DPN	AP	27	Press Release, "Parkervision, Inc. Announces Private Placement of 800,000 Shares," Parkervision Marketing and Manufacturing Headquarters, 1 Page (April 15, 1996).
DPN	AQ	27	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (April 30, 1996).
DPN	AR	27	Press Release, "ParkerVision's New Studio Product Wins Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (June 5, 1996).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DXN</i>	AA28	5,479,447	12/1995	Chow et al.	375	260	RECEIVED JAN 14 2002 Technology Center 2600
<i>DXN</i>	AB28	5,483,193	01/1996	Kennedy et al.	329	300	
<i>DXN</i>	AC28	5,483,549	01/1996	Weinberg et al.	375	200	
<i>DXN</i>	AD28	5,483,691	01/1996	Heck et al.	455	234.2	
<i>DXN</i>	AE28	5,490,173	02/1996	Whikehart et al.	375	316	
<i>DXN</i>	AF28	5,493,581	02/1996	Young et al.	375	350	
<i>DXN</i>	AG28	5,493,721	02/1996	Reis	455	339	
<i>DXN</i>	AH28	5,495,200	02/1996	Kwan et al.	327	554	
<i>DXN</i>	AI28	5,495,202	02/1996	Hsu	327	113	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ28						Yes No
	AK28						Yes No
	AL28						Yes No
	AM28						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	<u>28</u>	Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (August 1, 1996).
<i>DXN</i>	AO	<u>28</u>	Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 29, 1996).
<i>DXN</i>	AP	<u>28</u>	Press Release, "PictureTel and ParkerVision Sign Reseller Agreement," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1996).
<i>DXN</i>	AQ	<u>28</u>	Press Release, "CLI and ParkerVision Bring Enhanced Ease-of-Use to Videoconferencing," CLI/Parkervision, 2 Pages (January 20, 1997).
<i>DXN</i>	AR	<u>28</u>	Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (February 27, 1997).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DPN	AA29	5,495,500	02/1996	Jovanovich et al.	375	206	
DPN	AB29	5,499,267	03/1996	Ohe et al.	375	206	
DPN	AC29	5,500,758	03/1996	Thompson et al.	359	189	
DPN	AD29	5,517,688	05/1996	Fajen et al.	455	333	
DPN	AE29	5,519,890	05/1996	Pinckley	455	307	
DPN	AF29	5,523,719	06/1996	Longo et al.	327	557	
DPN	AG29	5,523,726	06/1996	Kroeger et al.	332	103	
DPN	AH29	5,523,760	06/1996	McEwan	342	89	
DPN	AI29	5,539,770	07/1996	Ishigaki	375	206	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ29						Yes No
	AK29						Yes No
	AL29						Yes No
	AM29						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DPN	AN	29	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (April 29, 1997).
DPN	AO	29	Press Release, "NEC and Parkervision Make Distance Learning Closer," NEC America, 2 Pages (June 18, 1997).
DPN	AP	29	Press Release, "Parkervision Supplies JPL with Robotic Cameras, Cameraman Shot Director for Mars Mission," Parkervision Marketing and Manufacturing Headquarters, 2 pages (July 8, 1997).
DPN	AQ	29	Press Release, "ParkerVision and IBM Join Forces to Create Wireless Computer Peripherals," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 23, 1997).
DPN	AR	29	Press Release, "ParkerVision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 31, 1997).

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INFORMATION DISCLOSURE STATEMENT

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ATTY. DOCKET NO.
1744.0260001APPLICATION NO.
09/476,093APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2631

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DPN	AA30	5,555,453	09/1996	Kajimoto et al.	455	266	/
DPN	AB30	5,557,641	09/1996	Weinberg	375	295	/
DPN	AC30	5,557,642	09/1996	Williams	375	316	/
DPN	AD30	5,579,341	11/1996	Smith et al.	375	267	/
DPN	AE30	5,579,347	11/1996	Lindquist et al.	375	346	/
DPN	AF30	5,584,068	12/1996	Mohindra	455	324	/
DPN	AG30	5,592,131	01/1997	Labreche et al.	332	103	/
DPN	AH30	5,602,847	02/1997	Pagano et al.	370	484	/
DPN	AI30	5,602,868	02/1997	Wilson	375	219	/

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ30						Yes No
	AK30						Yes No
	AL30						Yes No
	AM30						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DPN	AN	30	Press Release, "Parkervision, Inc. Announces Private Placement of 990,000 Shares," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (September 8, 1997).
DPN	AO	30	Press Release, "Wal-Mart Chooses Parkervision for Broadcast Production," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 24, 1997).
DPN	AP	30	Press Release, "Parkervision, Inc. Announces Third Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1997).
DPN	AQ	30	Press Release, "ParkerVision Announces Breakthrough in Wireless Radio Frequency Technology," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 10, 1997).
DPN	AR	30	Press Release, "Parkervision, Inc. Announces the Appointment of Joseph F. Skovron to the Position of Vice President, Licensing - Wireless Technologies," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 9, 1998).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DxN</i>	AA31	5,604,732	02/1997	Kim et al.	370	342	
<i>DxN</i>	AB31	5,608,531	03/1997	Honda et al.	386	1	
<i>DxN</i>	AC31	5,610,946	03/1997	Tanaka et al.	375	269	
<i>DxN</i>	AD31	RE 35,494	04/1997	Nicolini	327	554	
<i>DxN</i>	AE31	5,617,451	04/1997	Mimura et al.	375	340	
<i>DxN</i>	AF31	5,619,538	04/1997	Sempel et al.	375	328	
<i>DxN</i>	AG31	5,621,455	04/1997	Rogers et al.	348	6	
<i>DxN</i>	AH31	5,630,227	05/1997	Bella et al.	455	324	
<i>DxN</i>	AI31	5,640,415	06/1997	Pandula	375	202	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ31						Yes No
	AK31						Yes No
	AL31						Yes No
	AM31						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DxN</i>	AN	<u>31</u>	Press Release, "Parkervision Announces Existing Agreement with IBM Terminates-- Company Continues with Strategic Focus Announced in December," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 27, 1998).
<i>DxN</i>	AO	<u>31</u>	Press Release, "Laboratory Tests Verify Parkervision Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 3, 1998).
<i>DxN</i>	AP	<u>31</u>	Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1998).
<i>DxN</i>	AQ	<u>31</u>	Press Release, "Parkervision Awarded Editors' Pick of Show for NAB 98," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1998).
<i>DxN</i>	AR	<u>31</u>	Press Release, "Parkervision Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (May 4, 1998).

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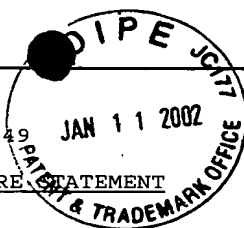
DATE CONSIDERED

5/5/2003

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DXN</i>	AA32	5,640,424	06/1997	Banavong et al.	375	316	
<i>DXN</i>	AB32	5,640,428	06/1997	Abe et al.	375	334	
<i>DXN</i>	AC32	5,640,698	06/1997	Shen et al.	455	323	
<i>DXN</i>	AD32	5,648,985	07/1997	Bjerede et al.	375	219	
<i>DXN</i>	AE32	5,650,785	07/1997	Rodal	342	357	
<i>DXN</i>	AF32	5,661,424	08/1997	Tang	327	105	
<i>DXN</i>	AG32	5,663,878	09/1997	Walker	363	159	
<i>DXN</i>	AH32	5,663,986	09/1997	Striffler	375	260	
<i>DXN</i>	AI32	5,668,836	09/1997	Smith et al.	375	316	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ32						Yes No
	AK32						Yes No
	AL32						Yes No
	AM32						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	<u>32</u>	Press Release, "Parkervision 'DIRECT2DATA' Introduced in Response to Market Demand," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 9, 1998).
<i>DXN</i>	AO	<u>32</u>	Press Release, "Parkervision Expands Senior Management Team," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 29, 1998).
<i>DXN</i>	AP	<u>32</u>	Press Release, "Parkervision Announces Second Quarter and Six Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 4 Pages (July 30, 1998).
<i>DXN</i>	AQ	<u>32</u>	Press Release, "Parkervision Announces Third Quarter and Nine Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1998).
<i>DXN</i>	AR	<u>32</u>	Press Release, "Questar Infocomm, Inc. Invests \$5 Million in Parkervision Common Stock," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 2, 1998).

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<i>DPN</i>	AA33	5,680,078	10/1997	Ariie	332	178	✓
<i>DPN</i>	AB33	5,680,418	10/1997	Croft et al.	375	346	✓
<i>DPN</i>	AC33	5,689,413	11/1997	Jaramillo et al.	363	146	✓
<i>DPN</i>	AD33	5,699,006	12/1997	Zelee et al.	327	341	✓
<i>DPN</i>	AE33	5,705,955	01/1998	Freeburg et al.	331	14	✓
<i>DPN</i>	AF33	5,710,998	01/1998	Opas	455	324	✓
<i>DPN</i>	AG33	5,714,910	02/1998	Skoczen et al.	331	3	✓
<i>DPN</i>	AH33	5,715,281	02/1998	Bly et al.	375	344	✓
<i>DPN</i>	AI33	5,721,514	02/1998	Crockett et al.	331	3	✓

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ33						Yes No
	AK33						Yes No
	AL33						Yes No
	AM33						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DPN</i>	AN	<u>33</u>	Press Release, "Parkervision Adds Two New Directors," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 5, 1999).
<i>DPN</i>	AO	<u>33</u>	Press Release, "Parkervision Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1999).
<i>DPN</i>	AP	<u>33</u>	Press Release, "Joint Marketing Agreement Offers New Automated Production Solution," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 13, 1999).
<i>DPN</i>	AQ	<u>33</u>	"Project COST 205: Scintillations in Earth-satellite links," <i>Alta Frequenza: Scientific Review in Electronics</i> , AEI, Vol. LIV, No. 3, pp. 209-211 (May-June, 1985).
<i>DPN</i>	AR	<u>33</u>	Razavi, B., <i>RF Microelectronics</i> , Prentice-Hall, pp. 147-149 (1998).

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1744.0260001APPLICATION NO.
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DPN	AA34	5,724,002	03/1998	Hulick	329	361	
DPN	AB34	5,724,653	03/1998	Baker et al.	455	296	
DPN	AC34	5,729,577	03/1998	Chen	375	334	
DPN	AD34	5,729,829	03/1998	Talwar et al.	455	63	
DPN	AE34	5,732,333	03/1998	Cox et al.	455	126	
DPN	AF34	5,736,895	04/1998	Yu et al.	327	554	
DPN	AG34	5,737,035	04/1998	Rotzoll	348	725	
DPN	AH34	5,742,189	04/1998	Yoshida et al.	327	113	
DPN	AI34	5,748,683	05/1998	Smith et al.	375	347	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ34						Yes No
	AK34						Yes No
	AL34						Yes No
	AM34						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DPN	AN	34	Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 1)," <i>Electronic Engineering</i> , Morgan Brothers Limited, Vol. 31, No. 373, pp. 130-137 (March 1959).
DPN	AO	34	Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 2)," <i>Electronic Engineering</i> , Morgan Brothers Limited, Vol. 31, No. 374, pp. 204-212 (April 1959).
DPN	AP	34	Rein, H.M. and Zahn, M., "Subnanosecond-Pulse Generator with Variable Pulsewidth Using Avalanche Transistors," <i>Electronics Letters</i> , IEE, Vol. 11, No. 1, pp. 21-23 (January 9, 1975).
DPN	AQ	34	Riad, S.M. and Nahman, N.S., "Modeling of the Feed-through Wideband (DC to 12.4 Ghz) Sampling-Head," <i>IEEE MTT-S International Microwave Symposium Digest</i> , IEEE, pp. 267-269 (June 27-29, 1978).
DPN	AR	34	Rizzoli, V. et al., "Computer-Aided Noise Analysis of MESFET and HEMT Mixers," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, Vol. 37, No. 9, pp. 1401-1410 (September 1989).

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DXN	AA35	RE 35,829	06/1998	Sanderford, Jr.	375	200	✓
DXN	AB35	5,760,645	06/1998	Comte et al.	329	304	✓
DXN	AC35	5,764,087	06/1998	Clark	327	105	✓
DXN	AD35	5,767,726	06/1998	Wang	327	356	✓
DXN	AE35	5,768,118	06/1998	Faulk et al.	363	72	✓
DXN	AF35	5,771,442	06/1998	Wang et al.	455	93	✓
DXN	AG35	5,777,692	07/1998	Ghosh	348	725	✓
DXN	AH35	5,777,771	07/1998	Smith	359	180	✓
DXN	AI35	5,786,844	07/1998	Rogers et al.	348	6	✓

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ35						Yes No
	AK35						Yes No
	AL35						Yes No
	AM35						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DXN	AN	35	Rowe, H.E., <i>Signals and Noise in Communication Systems</i> , D. Van Nostrand Company, Inc., Princeton, New Jersey, including, for example, Chapter V, Pulse Modulation Systems (1965).
DXN	AO	35	Rücker, F. and Dintelmann, F., "Effect of Antenna Size on OTS Signal Scintillations and Their Seasonal Dependence," <i>Electronics Letters</i> , IEE, Vol. 19, No. 24, pp. 1032-1034 (November 24, 1983).
DXN	AP	35	Russell, R. and Hoare, L., "Millimeter Wave Phase Locked Oscillators," <i>Military Microwaves '78 Conference Proceedings</i> , Microwave Exhibitions and Publishers, pp. 238-242 (October 25-27, 1978).
DXN	AQ	35	Sabel, L.P., "A DSP Implementation of a Robust Flexible Receiver/Demultiplexer for Broadcast Data Satellite Communications," <i>The Institution of Engineers Australia Communications Conference</i> , Institution of Engineers, Australia, pp. 218-223 (October 16-18, 1990).
DXN	AR	35	Salous, S., "IF digital generation of FMCW waveforms for wideband channel characterization," <i>IEE Proceedings-I</i> , IEE, Vol. 139, No. 3, pp. 281-288 (June 1992).

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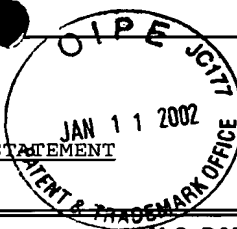
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DPN	AA36	5,793,801	08/1998	Fertner	375	219	1
DPN	AB36	5,793,818	08/1998	Claydon et al.	375	326	1
DPN	AC36	5,802,463	09/1998	Zuckerman	455	208	1
DPN	AD36	5,809,060	09/1998	Cafarella et al.	375	206	1
DPN	AE36	5,818,582	10/1998	Fernandez et al.	356	318	1
DPN	AF36	5,825,254	10/1998	Lee	331	25	1
DPN	AG36	5,834,985	11/1998	Sundegård	332	100	1
DPN	AH36	5,864,754	01/1999	Hotto	455	280	1
DPN	AI36	5,881,375	03/1999	Bonds	455	118	1

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ36						Yes No
	AK36						Yes No
	AL36						Yes No
	AM36						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DPN	AN	36	"Sampling Loops Lock Sources to 23 Ghz," Microwaves & RF, Penton Publishing, p. 212 (September 1990).
DPN	AO	36	Sasikumar, M. et al., "Active Compensation in the Switched-Capacitor Biquad," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 1008-1009 (August 1983).
DPN	AP	36	Saul, P.H., "A GaAs MESFET Sample and Hold Switch," Fifth European Solid State Circuits Conference-ESSCIRC 79, IEE, pp. 5-7 (1979).
DPN	AQ	36	Shen, D.H. et al., "A 900-MHZ RF Front-End with Integrated Discrete-Time Filtering," IEEE Journal of Solid-State Circuits, IEEE Solid-State Circuits Council, Vol. 31, No. 12, pp. 1945-1954 (December 1996).
DPN	AR	36	Shen, X.D. and Vilar, E., "Anomalous transhorizon propagation and meteorological processes of a multilink path," Radio Science, American Geophysical Union, Vol. 30, No. 5, pp. 1467-1479 (September-October 1995).

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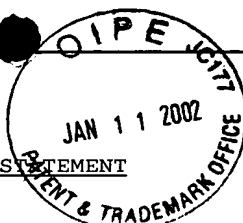
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DXN</i>	AA37	5,892,380	04/1999	Quist	327	172	✓
<i>DXN</i>	AB37	5,894,239	04/1999	Bonaccio et al.	327	176	✓
<i>DXN</i>	AC37	5,896,562	04/1999	Heinonen	455	76	✓
<i>DXN</i>	AD37	5,900,747	05/1999	Brauns	327	9	✓
<i>DXN</i>	AE37	5,901,054	05/1999	Leu et al.	363	41	✓
<i>DXN</i>	AF37	5,901,187	05/1999	linuma	375	347	✓
<i>DXN</i>	AG37	5,901,344	05/1999	Opas	455	76	✓
<i>DXN</i>	AH37	5,901,347	05/1999	Chambers et al.	455	234.1	✓
<i>DXN</i>	AI37	5,901,348	05/1999	Bang et al.	455	254	✓

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	AJ37						Yes No
	AK37						Yes No
	AL37						Yes No
	AM37						Yes No

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	<u>37</u>	Shen, X. and Tawfik, A.N., "Dynamic Behaviour of Radio Channels Due to Trans-Horizon Propagation Mechanisms," <i>Electronics Letters</i> , IEE, Vol. 29, No. 17, pp. 1582-1583 (August 19, 1993).
<i>DXN</i>	AO	<u>37</u>	Shen, X. et al., "Modeling Enhanced Spherical Diffraction and Troposcattering on a Transhorizon Path with aid of the parabolic Equation and Ray Tracing Methods," <i>IEE Colloquium on Common modeling techniques for electromagnetic wave and acoustic wave propagation</i> , IEE, pp. 4/1-4/7 (March 8, 1996).
<i>DXN</i>	AP	<u>37</u>	Shen, X. and Vilar, E., "Path loss statistics and mechanisms of transhorizon propagation over a sea path," <i>Electronics Letters</i> , IEE, Vol. 32, No. 3, pp. 259-261 (February 1, 1996).
<i>DXN</i>	AQ	<u>37</u>	Shen, D. et al., "A 900 MHZ Integrated Discrete-Time Filtering RF Front-End," <i>IEEE International Solid State Circuits Conference</i> , IEEE, Vol. 39, pp. 54-55 and 417. (February 1996).
<i>DXN</i>	AR	<u>37</u>	Spillard, C. et al., "X-Band Tropospheric Transhorizon Propagation Under Differing Meteorological Conditions," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 451-455 (April 4-7, 1989).

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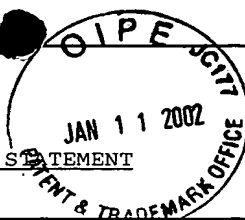
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DXN</i>	AA38	5,901,349	05/1999	Guegnaud et al.	455	302	✓
<i>DXN</i>	AB38	5,903,178	05/1999	Miyatsuji et al.	327	308	✓
<i>DXN</i>	AC38	5,903,187	05/1999	Claverie et al.	329	342	✓
<i>DXN</i>	AD38	5,903,196	05/1999	Salvi et al.	331	16	✓
<i>DXN</i>	AE38	5,903,421	05/1999	Furutani et al.	361	58	✓
<i>DXN</i>	AF38	5,903,553	05/1999	Sakamoto et al.	370	338	✓
<i>DXN</i>	AG38	5,903,595	05/1999	Suzuki	375	207	✓
<i>DXN</i>	AH38	5,903,609	05/1999	Kool et al.	375	261	✓
<i>DXN</i>	AI38	5,903,827	05/1999	Kennan et al.	455	326	✓

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	AJ38						Yes No
	AK38						Yes No
	AL38						Yes No
	AM38						Yes No

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	<u>38</u>	Stafford, K.R. et al., "A Complete Monolithic Sample/Hold Amplifier," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-9, No. 6, pp. 381-387 (December 1974).
<i>DXN</i>	AO	<u>38</u>	Staruk, W. Jr. et al., "Pushing HF Data Rates," <i>Defense Electronics</i> , EW Communications, Vol. 17, No. 5, pp. 211, 213, 215, 217, 220 and 222 (May 1985).
<i>DXN</i>	AP	<u>38</u>	Stephenson, A.G., "Digitizing multiple RF signals requires an optimum sampling rate," <i>Electronics</i> , McGraw-Hill, pp. 106-110 (March 27, 1972).
<i>DXN</i>	AQ	<u>38</u>	Sugarman, R., "Sampling Oscilloscope for Statistically Varying Pulses," <i>The Review of Scientific Instruments</i> , American Institute of Physics, Vol. 28, No. 11, pp. 933-938 (November 1957).
<i>DXN</i>	AR	<u>38</u>	Sylvain, M., "Experimental probing of multipath microwave channels," <i>Radio Science</i> , American Geophysical Union, Vol. 24, No. 2, pp. 160-178 (March-April 1989).

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<i>DPN</i>	AA39	5,903,854	05/1999	Abe et al.	455	575	✓
<i>DPN</i>	AB39	5,905,449	05/1999	Tsubouchi et al.	340	925.69	✓
<i>DPN</i>	AC39	5,907,149	05/1999	Marckini	235	487	✓
<i>DPN</i>	AD39	5,907,197	05/1999	Faulk	307	119	✓
<i>DPN</i>	AE39	5,911,116	06/1999	Nossowitz	455	83	✓
<i>DPN</i>	AF39	5,911,123	06/1999	Shaffer et al.	455	554	✓
<i>DPN</i>	AG39	5,914,622	06/1999	Inoue	327	172	✓
<i>DPN</i>	AH39	5,920,199	07/1999	Sauer	324	678	✓
<i>DPN</i>	AI39	5,943,370	08/1999	Smith	375	334	✓

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	AJ39						Yes No
	AK39						Yes No
	AL39						Yes No
	AM39						Yes No

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DPN</i>	AN	<u>39</u>	Takano, T., "NOVEL GaAs Pet Phase Detector Operable To Ka Band," <i>IEEE MT-S Digest</i> , IEEE, pp. 381-383 (1984).
<i>DPN</i>	AO	<u>39</u>	Tan, M.A., "Biquadratic Transconductance Switched-Capacitor Filters," <i>IEEE Transactions on Circuits and Systems- I: Fundamental Theory and Applications</i> , IEEE Circuits and Systems Society, Vol. 40, No. 4, pp. 272-275 (April 1993).
<i>DPN</i>	AP	<u>39</u>	Tanaka, K. et al., "Single Chip Multisystem AM Stereo Decoder IC," <i>IEEE Transactions on Consumer Electronics</i> , IEEE Consumer Electronics Society, Vol. CE-32, No. 3, pp. 482-496 (August 1986).
<i>DPN</i>	AQ	<u>39</u>	Tawfik, A.N., "Amplitude, Duration and Predictability of Long Hop Trans-Horizon X-band Signals Over the Sea," <i>Electronics Letters</i> , IEE, Vol. 28, No. 6, pp. 571-572 (March 12, 1992).
<i>DPN</i>	AR	<u>39</u>	Tawfik, A.N. and Vilar, E., "Correlation of Transhorizon Signal Level Strength with Localized Surface Meteorological Parameters," <i>Eighth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 335-339 (March 30- April 2, 1993).

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DXN	AA40	4,017,798	04/1977	Gordy et al.	325	42	✓
DXN	AB40	4,032,847	06/1977	Unkauf	325	323	✓
DXN	AC40	4,253,067	02/1981	Caples et al.	329	110	✓
DXN	AD40	4,393,395	07/1983	Hacke et al.	358	23	✓
DXN	AE40	4,816,704	03/1989	Fiori, Jr.	307	519	✓
DXN	AF40	4,841,265	06/1989	Watanabe et al.	333	194	✓
DXN	AG40	4,943,974	07/1990	Motamedi	375	1	✓
DXN	AH40	5,115,409	05/1992	Stepp	364	841	✓
DXN	AI40	5,353,306	10/1994	Yamamoto	375	14	✓

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ40						Yes No
	AK40						Yes No
	AL40						Yes No
	AM40						Yes No

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DXN	AN	40	Tawfik, A.N. and Vilar, E., "Dynamic Structure of a Transhorizon Signal at X-band Over a Sea Path," Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation, IEE, pp. 446-450 (April 4-7, 1989).
DXN	AO	40	Tawfik, A.N. and Vilar, E., "Statistics of Duration and Intensity of Path Loss in a Microwave Transhorizon Sea-Path," Electronics Letters, IEE, Vol. 26, No. 7, pp. 474-476 (March 29, 1990).
DXN	AP	40	Tawfik, A.N. and Vilar, E., "X-Band Transhorizon Measurements of CW Transmissions Over the Sea- Part 1: Path Loss, Duration of Events, and Their Modeling," IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society, Vol. 41, No. 11, pp. 1491-1500 (November 1993).
DXN	AQ	40	Temes, G.C. and Tsividis, T., "The Special Section on Switched-Capacitor Circuits," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 915-916 (August 1983).
DXN	AR	40	Thomas, G.B., Calculus and Analytic Geometry, Third Edition, Addison-Wesley Publishing, pp. 119-133 (1960).

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<i>DXN</i>	AA41	5,515,014	05/1996	Troutman	332	178	✓
<i>DXN</i>	AB41	5,563,550	10/1996	Toth	329	347	✓
<i>DXN</i>	AC41	5,574,755	11/1996	Persico	375	295	✓
<i>DXN</i>	AD41	5,604,592	02/1997	Kotidis et al.	356	357	✓
<i>DXN</i>	AE41	5,638,396	06/1997	Klimek	372	92	✓
<i>DXN</i>	AF41	5,675,392	10/1997	Nayebi et al.	348	584	✓
<i>DXN</i>	AG41	5,694,096	12/1997	Ushiroku et al.	333	195	✓
<i>DXN</i>	AH41	5,757,870	05/1998	Miya et al.	375	367	✓
<i>DXN</i>	AI41	5,768,323	06/1998	Kroeger et al.	375	355	✓

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ41						Yes No
	AK41						Yes No
	AL41						Yes No
	AM41						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	<u>41</u>	Tomassetti, Q., "An Unusual Microwave Mixer," 16 th European Microwave Conference, Microwave Exhibitions and Publishers, pp. 754-759 (September 8-12, 1986).
<i>DXN</i>	AO	<u>41</u>	Tortoli, P. et al., "Bidirectional Doppler Signal Analysis Based on a Single RF Sampling Channel," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, Vol. 41, No. 1, pp. 1-3 (January 1984).
<i>DXN</i>	AP	<u>41</u>	Tsividis, Y. and Antognetti, P. (Ed.), Design of MOS VLSI Circuits for Telecommunications, Prentice-Hall, p. 304 (1985).
<i>DXN</i>	AQ	<u>41</u>	Tsividis, Y., "Principles of Operation and Analysis of Switched-Capacitor Circuits," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 926-940 (August 1983).
<i>DXN</i>	AR	<u>41</u>	Tsurumi, H. and Maeda, T., "Design Study on a Direct Conversion Receiver Front-End for 280 MHz, 900 MHz, and 2.6 Ghz Band Radio Communication Systems," 41 st IEEE Vehicular Technology Conference, IEEE Vehicular Technology Society, pp. 457-462 (May 19-22, 1991).

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ATTY. DOCKET NO.
1744.0260001APPLICATION NO.
09/476,093APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2631

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DPN	AA42	5,770,985	06/1998	Ushiroku et al.	333	193	/
DPN	AB42	5,778,022	07/1998	Walley	375	206	/
DPN	AC42	5,812,546	09/1998	Zhou et al.	370	342	/
DPN	AD42	5,818,869	10/1998	Miya et al.	375	206	/
DPN	AE42	5,844,449	12/1998	Abeno et al.	332	105	/
DPN	AF42	5,872,446	02/1999	Cranford, Jr. et al.	323	315	/
DPN	AG42	5,909,447	06/1999	Cox et al.	370	508	/
DPN	AH42	5,933,467	08/1999	Sehier et al.	375	350	/
DPN	AI42	5,952,895	09/1999	McCune, Jr. et al.	332	128	/

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ42						Yes No
	AK42						Yes No
	AL42						Yes No
	AM42						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DPN	AN	42	Valdmanis, J.A. et al., "Picosecond and Subpicosecond Optoelectronics for Measurements of Future High Speed Electronic Devices," <i>IEDM Technical Digest</i> , IEEE, pp. 597-600 (December 5-7, 1983).
DPN	AO	42	van de Kamp, M.M.J.L., "Asymmetric signal level distribution due to tropospheric scintillation," <i>Electronics Letters</i> , IEE, Vol. 34, No. 11, pp. 1145-1146 (May 28, 1998).
DPN	AP	42	Vasseur, H. and Vanhoenacker, D., "Characterization of tropospheric turbulent layers from radiosonde data," <i>Electronics Letters</i> , IEE, Vol. 34, No. 4, pp. 318-319 (February 19, 1998).
DPN	AQ	42	Verdone, R., "Outage Probability Analysis for Short-Range Communication Systems at 60 Ghz in ATT Urban Environments," <i>IEEE Transactions on Vehicular Technology</i> , IEEE Vehicular Technology Society, Vol. 46, No. 4, pp. 1027-1039 (November 1997).
DPN	AR	42	Vierira-Ribeiro, S.A., <i>Single-IF DECT Receiver Architecture using a Quadrature Sub-Sampling Band-Pass Sigma-Delta Modulator</i> , Thesis for Degree of Master's of Engineering, Carleton University, UMI Dissertation Services, pp. 1-180 (April 1995).

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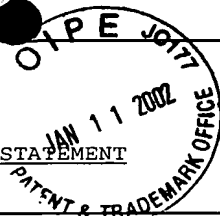
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<i>DXN</i>	AA43	5,960,033	09/1999	Shibano et al.	375	207	✓
<i>DXN</i>	AB43	6,041,073	03/2000	Davidovici et al.	375	148	09/18/1998
<i>DXN</i>	AC43	6,054,889	04/2000	Kobayashi	327	357	11/11/1997
<i>DXN</i>	AD43	6,084,922	07/2000	Zhou et al.	375	316	04/16/1998
<i>DXN</i>	AE43	6,125,271	09/2000	Rowland et al.	455	313	03/06/1998
<i>DXN</i>	AF43	6,147,340	11/2000	Levy	250	214 R	09/29/1998
<i>DXN</i>	AG43	6,147,763	11/2000	Steinlechner	356	484	12/27/1999
<i>DXN</i>	AH43	6,150,890	11/2000	Damgaard et al.	331	14	09/30/1998
<i>DXN</i>	AI43	5,126,682	06/1992	Weinberg et al.	329	304	✓

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ43						Yes No
	AK43						Yes No
	AL43						Yes No
	AM43						Yes No

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<i>DXN</i>	AN	<u>43</u>	Vilar, E. et al., "A Comprehensive/Selective MM-Wave Satellite Downlink Experiment on Fade Dynamics," Tenth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 2.98-2.101 (April 14-17, 1997).
<i>DXN</i>	AO	<u>43</u>	Vilar, E. et al., "A System to Measure LOS Atmospheric Transmittance at 19 Ghz," AGARD Conference Proceedings No. 346: Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation, AGARD, pp. 8-1 - 8-16 (October 4-7, 1983).
<i>DXN</i>	AP	<u>43</u>	Vilar, E. and Smith, H., "A Theoretical and Experimental Study of Angular Scintillations in Earth Space Paths," IEEE Transactions on Antennas and Propagation, IEEE, Vol. AP-34, No. 1, pp. 2-10 (January 1986).
<i>DXN</i>	AQ	<u>43</u>	Vilar, E. et al., "A Wide Band Transhorizon Experiment at 11.6 Ghz," Eighth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 441-445 (March 30- April 2, 1993).
<i>DXN</i>	AR	<u>43</u>	Vilar, E. and Matthews, P.A., "Amplitude Dependence of Frequency in Oscillators," Electronics Letters, IEE, Vol. 8, No. 20, pp. 509-511 (October 5, 1972).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DXN	AA44	5,841,811	11/1998	Song	375	235	✓
DXN	AB44	4,051,475	09/1977	Campbell	343	180	✓
DXN	AC44	5,953,642	09/1999	Feldtkeller et al.	455	195.1	✓
DXN	AD44	4,653,117	03/1987	Heck	455	209	✓
DXN	AE44	5,859,878	01/1999	Phillips et al.	375	316	✓
DXN	AF44	5,894,496	04/1999	Jones	455	126	✓
DXN	AG44	5,915,278	06/1999	Mallick	73	658	✓
DXN	AH44	6,028,887	02/2000	Harrison et al.	375	206	06/26/1997
DXN	AI44	6,081,691	06/2000	Renard et al.	455	12.1	04/14/1998

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ44						Yes No
	AK44						Yes No
	AL44						Yes No
	AM44						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DXN	AN	44	Vilar, E. et al., "An experimental mm-wave receiver system for measuring phase noise due to atmospheric turbulence," <i>Proceedings of the 25th European Microwave Conference</i> , Nexus House, pp. 114-119 (1995).
DXN	AO	44	Vilar, E. and Burgueño, A., "Analysis and Modeling of Time Intervals Between Rain Rate Exceedances in the Context of Fade Dynamics," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 39, No. 9, pp. 1306-1312 (September 1991).
DXN	AP	44	Vilar, E. et al., "Angle of Arrival Fluctuations in High and Low Elevation Earth Space Paths," <i>Fourth International Conference on Antennas and Propagation (ICAP 85)</i> , Electronics Division of the IEE, pp. 83-88 (April 16-19, 1985).
DXN	AQ	44	Vilar, E., "Antennas and Propagation: A Telecommunications Systems Subject," <i>Electronics Division Colloquium on Teaching Antennas and Propagation to Undergraduates</i> , IEE, pp. 7/1-7/6 (March 8, 1988).
DXN	AR	44	Vilar, E. et al., "CERS*. Millimetre-Wave Beacon Package and Related Payload Doppler Correction Strategies," <i>Electronics Division Colloquium on CERS- Communications Engineering Research Satellite</i> , IEE, pp. 10/1-10/10 (April 10, 1984).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DPN	AA45	6,121,819	09/2000	Traylor	327	359	04/06/1998
DPN	AB45	6,144,236	11/2000	Vice et al.	327	113	02/01/1998
DPN	AC45	6,144,846	11/2000	Durec	455	323	12/31/1997
DPN	AD45	6,175,728 B1	01/2001	Mitama	455	323	03/03/1998
DPN	AE45	5,705,949	01/1998	Alelyunas et al.	329	304	—
DPN	AF45	5,883,548	03/1999	Assard et al.	329	306	—
DPN	AG45	4,484,143	11/1984	French et al.	329	50	—
DPN	AH45	5,841,324	11/1998	Williams	331	17	—
DPN	AI45	4,855,894	08/1989	Asahi et al.	363	157	—

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ45						Yes No
	AK45						Yes No
	AL45						Yes No
	AM45						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DPN	AN	45	Vilar, E. and Mousley, T.J., "Comment and Reply: Probability Density Function of Amplitude Scintillations," <i>Electronics Letters</i> , IEE, Vol. 21, No. 14, pp. 620-622 (July 4, 1985).
DPN	AO	45	Vilar, E. et al., "Comparison of Rainfall Rate Duration Distributions for ILE-IFE and Barcelona," <i>Electronics Letters</i> , IEE, Vol. 28, No. 20, pp. 1922-1924 (September 24, 1992).
DPN	AP	45	Vilar, E., "Depolarization and Field Transmittances in Indoor Communications," <i>Electronics Letters</i> , IEE, Vol. 27, No. 9, pp. 732-733 (April 25, 1991).
DPN	AQ	45	Vilar, E. and Larsen, J.R., "Elevation Dependence of Amplitude Scintillations on Low Elevation Earth Space Paths," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 150-154 (April 4-7, 1989).
DPN	AR	45	Vilar, E. et al., "Experimental System and Measurements of Transhorizon Signal Levels at 11 Ghz," <i>18th European Microwave Conference, Microwave Exhibitions and Publishers Ltd.</i> , pp. 429-435 (September 12 - 15, 1988).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DPN	AA46	5,319,799	06/1994	Morita	455	78	/
DPN	AB46	5,801,654	09/1998	Traylor	341	144	/
DPN	AC46	5,369,404	11/1994	Galton	341	143	/
DPN	AD46	3,716,730	02/1973	Cerny, Jr.	307	295	/
DPN	AE46	4,080,573	03/1978	Howell	325	439	/
DPN	AF46	4,334,324	06/1982	Hoover	455	333	/
DPN	AG46	4,369,522	01/1983	Cerny, Jr. et al.	455	333	/
DPN	AH46	5,465,418	11/1995	Zhou et al.	455	332	/
DPN	AI46	5,513,389	04/1996	Reeser et al.	455	311	/

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ46						Yes No
	AK46						Yes No
	AL46						Yes No
	AM46						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DPN	AN	46	Vilar, E. and Matthews, P.A., "Importance of Amplitude Scintillations in Millimetric Radio Links," <i>Proceedings of the 4th European Microwave Conference, Microwave Exhibitions and Publishers</i> , pp. 202-206 (September 10-13, 1974).
DPN	AO	46	Vilar, E. and Haddon, J., "Measurement and Modeling of Scintillation Intensity to Estimate Turbulence Parameters in an Earth-Space Path," <i>IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society</i> , Vol. AP-32, No. 4, pp. 340-346 (April 1984).
DPN	AP	46	Vilar, E. and Matthews, P.A., "Measurement of Phase Fluctuations on Millimetric Radiowave Propagation," <i>Electronics Letters, IEE</i> , Vol. 7, No. 18, pp. 566-568 (September 9, 1971).
DPN	AQ	46	Vilar, E. and Wan, K.W., "Narrow and Wide Band Estimates of Field Strength for Indoor Communications in the Millimetre Band," <i>Electronics Division Colloquium on Radiocommunications in the Range 30-60 Ghz, IEE</i> , pp. 5/1-5/8 (January 17, 1991).
DPN	AR	46	Vilar, E. and Faulkner, N.D., "Phase Noise and Frequency Stability Measurements. Numerical Techniques and Limitations," <i>Electronics Division Colloquium on Low Noise Oscillators and Synthesizer, IEE</i> , 5 pages (January 23, 1986).

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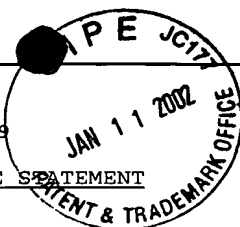
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA47	5,959,850	09/1999	Lim	363	17	✓
	AB47						✓
	AC47						✓
	AD47						✓
	AE47						✓
	AF47						✓
	AG47						✓
	AH47						✓
	AI47						✓

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ47						Yes No
	AK47						Yes No
	AL47						Yes No
	AM47						Yes No

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DPN	AN	47	Vilar, E. and Senin, S., "Propagation phase noise identified using 40 Ghz satellite downlink," <i>Electronics Letters</i> , IEE, Vol. 33, No. 22, pp. 1901-1902 (October 23, 1997).
DPN	AO	47	Vilar, E. et al., "Scattering and Extinction: Dependence Upon Raindrop Size Distribution in Temperate (Barcelona) and Tropical (Belem) Regions," <i>Tenth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 2.230-2.233 (April 14-17, 1997).
DPN	AP	47	Vilar, E. and Haddon, J., "Scintillation Modeling and Measurement - A Tool for Remote-Sensing Slant Paths," <i>AGARD Conference Proceedings No. 332: Propagation Aspects of Frequency Sharing, Interference And System Diversity</i> , AGARD, pp. 27-1 - 27-13 (October 18-22, 1982).
DPN	AQ	47	Vilar, E., "Some Limitations on Digital Transmission Through Turbulent Atmosphere," <i>International Conference on Satellite Communication Systems Technology</i> , Electronics Division of the IEE, pp. 169-187 (April 7-10, 1975).
DPN	AR	47	Vilar, E. and Matthews, P.A., "Summary of Scintillation Observations in a 36 Ghz Link Across London," <i>International Conference on Antennas and Propagation Part 2: Propagation</i> , IEE, pp. 36-40 (November 28-30, 1978).

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	AJ48						Yes No
	AK48						Yes No
	AL48						Yes No
	AM48						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DXN	AN	48	Vilar, E. et al., "Wideband Characterization of Scattering Channels," Tenth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 2.353-2.358 (April 14-17, 1997).
DXN	AO	48	Vollmer, A., "Complete GPS Receiver Fits on Two Chips," Electronic Design, Penton Publishing, pp. 50, 52, 54 and 56 (July 6, 1998).
DXN	AP	48	Voltage and Time Resolution in Digitizing Oscilloscopes: Application Note 348, Hewlett Packard, pp. 1-11 (November 1986).
DXN	AQ	48	Wan, K.W. et al., "A Novel Approach to the Simultaneous Measurement of Phase and Amplitude Noises in Oscillator," Proceedings of the 19 th European Microwave Conference, Microwave Exhibitions and Publishers Ltd., pp. 809-813 (September 4-7, 1989).
DXN	AR	48	Wan, K.W. et al., "Extended Variances and Autoregressive/Moving Average Algorithm for the Measurement and Synthesis of Oscillator Phase Noise," Proceedings Of the 43 rd Annual Symposium on Frequency Control, IEEE, pp. 331-335 (1989).

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	AJ49						Yes No
	AK49						Yes No
	AL49						Yes No
	AM49						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DN	AN	49	Wan, K.W. et al., "Wideband Transhorizon Channel Sounder at 11 Ghz," <i>Electronics Division Colloquium on High Bit Rate UHF/SHF Channel Sounders - Technology and Measurement</i> , IEE, pp. 3/1-3/5 (December 3, 1993).
DN	AO	49	Wang, H., "A 1-V Multigigahertz RF Mixer Core in 0.5 - μ m CMOS," <i>IEEE Journal of Solid-State Circuits</i> , IEEE Solid-State Circuits Society, Vol. 33, No. 12, pp. 2265-2267 (December 1998).
DN	AP	49	Watson, A.W.D. et al., "Digital Conversion and Signal Processing for High Performance Communications Receivers," <i>Digital Processing of Signals in Communications</i> , Institution of Electronic and Radio Engineers, pp. 367-373 (April 22nd -26th, 1985).
DN	AQ	49	Weast, R.C. et al. (Ed.), <i>Handbook of Mathematical Tables</i> , Second Edition, The Chemical Rubber Co., pp. 480-485 (1964).
DN	AR	49	Wiley, R.G., "Approximate FM Demodulation Using Zero Crossings," <i>IEEE Transactions on Communications</i> , IEEE, Vol. COM-29, No. 7, pp. 1061-1065 (July 1981).

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	AA50						
	AB50						
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	AD50						
	AE50						
	AF50						
	AG50						
	AH50						
	AI50						

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	AJ50						Yes No
	AK50						Yes No
	AL50						Yes No
	AM50						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	<u>50</u>	Worthman, W., "Convergence... Again," <i>RF Design</i> , Primedia, p. 102 (March 1999).
<i>DXN</i>	AO	<u>50</u>	Young, I.A. and Hodges, D.A., "MOS Switched-Capacitor Analog Sampled-Data Direct-Form Recursive Filters," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-14, No. 6, pp. 1020-1033 (December 1979).
<i>DXN</i>	AP	<u>50</u>	Translation of Specification and Claims of FR Patent No. 2245130, 3 pages.
<i>DXN</i>	AQ	<u>50</u>	Fest, Jean-Pierre, "Le Convertisseur A/N Revolutionne Le Recepteur Radio," <i>Electronique</i> , JMJ (Publisher), No. 54, pp. 40-42 (December 1995).
<i>DXN</i>	AR	<u>50</u>	Translation of DE Patent No. 35 41 031 A1, 22 pages.

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	AA51						
	AB51						
	AC51						
	AD51						
	AE51						
	AF51						
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	AH51						
	AI51						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ51						Yes No
	AK51						Yes No
	AL51						Yes No
	AM51						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DPN	AN	51	Translation of EP Patent No. 0 732 803 A1, 9 pages.
DPN	AO	51	Fest, Jean-Pierre, "The A/D Converter Revolutionizes the Radio Receiver," <i>Electronique</i> , JMJ (Publisher), No. 54, 3 pages (December 1995). (Translation of Doc. AQ50).
DPN	AP	51	Translation of German Patent No. DE 197 35 798 C1, 8 pages.
DPN	AQ	51	Miki, S. and Nagahama, R., <i>Modulation System II</i> , Common Edition 7, Kyoritsu Publishing Co., Ltd., pp. 146-154 (April 30, 1956).
DPN	AR	51	Miki, S. and Nagahama, R., <i>Modulation System II</i> , Common Edition 7, Kyoritsu Publishing Co., Ltd., pp. 146-149 (April 30, 1956). (Partial Translation of Doc. AQ51).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0260001APPLICATION NO.
09/476,093APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2631

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA52						
	AB52						
	AC52						
	AD52						
	AE52						
	AF52						
	AG52						
	AH52						
	AI52						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ52						Yes No
	AK52						Yes No
	AL52						Yes No
	AM52						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DXN	AN	52	Rabiner, L.R. and Gold, B., Theory And Application Of Digital Signal Processing, Prentice-Hall, Inc., pp. xiii-xii and 40-46 (1975).
DXN	AO	52	English-language Abstract of JP 08-032556, published February 2, 1996, from http://www1.ipdl.jpo.go.jp , 2 Pages (last visited December 14, 2001).
DXN	AP	52	English-language Abstract of JP 08-139524, published May 31, 1996, from http://www1.ipdl.jpo.go.jp , 2 Pages (last visited December 14, 2001).
DXN	AQ	52	English-language Abstract of JP 59-144249, published August 18, 1984, from http://www1.ipdl.jpo.go.jp , 2 Pages (last visited January 2, 2002).
DXN	AR	52	English-language Abstract of JP 63-054002, published March 8, 1988, from http://www1.ipdl.jpo.go.jp , 2 Pages (last visited January 2, 2002).

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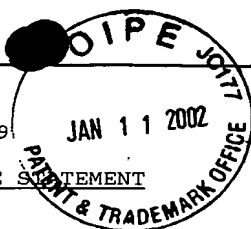
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	AA53						
	AB53						
	AC53						
	AD53						
	AE53						
	AF53						
	AG53						
	AH53						
	AI53						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ53						Yes No
	AK53						Yes No
	AL53						Yes No
	AM53						Yes No

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DxN</i>	AN	<u>53</u>	English-language Abstract of JP 06-237276, published August 23, 1994, from http://www1.ipdl.jpo.go.jp , 2 Pages (last visited January 2, 2002).
<i>DxN</i>	AO	<u>53</u>	English-language Abstract of JP 08-023359, published January 23, 1996, from http://www1.ipdl.jpo.go.jp , 2 Pages (last visited January 2, 2002).
	AP	<u>53</u>	
	AQ	<u>53</u>	
	AR	<u>53</u>	

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1744.0260001	APPLICATION NO. 09/476,093
	APPLICANT Sorrells et al.	
	FILING DATE January 3, 2000	GROUP 2631

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DAV C.C.	AB47	5,157,687	10/1992	Tymes	375	1	/
DAV C.C.	AC47	5,945,660	08/1999	Nakasuji et al.	235	462.46	/
DAV C.C.	AD47	6,091,939	07/2000	Banh	455	102	/
DAV C.C.	AE47	6,091,941	07/2000	Moriyama et al.	455	126	/
DAV C.C.	AF47	6,098,886	08/2000	Swift et al.	235	472.01	/
DAV C.C.	AG47	6,215,475 B1	04/2001	Meyerson et al.	345	173	/
DAV C.C.	AH47	6,049,706	04/2000	Cook et al.	455	313	/
DAV C.C.	AI47	6,061,551	05/2000	Sorrells et al.	455	118	/

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
DAV C.C.	AL15	JP 47-2314	02/1972	JP	—	—	No
DAV C.C.	AM15	JP 58-7903	01/1983	JP	H03C	1/02	No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
DAV C.C.	AP	53	Partial Translation of Japanese Patent Publication No. 47-2314, 3 pages.
DAV C.C.	AQ	53	Partial Translation of Japanese Patent Publication No. 58-7903, 3 pages.
DAV C.C.	AR	53	English-language Abstract of Japanese Patent Publication No. 58-133004, from http://www1.ipdl.jpo.go.jp , 2 Pages (August 8, 1993 - Date of publication of application).

EXAMINER <i>Samy P. Nigam</i> C.CHOW	DATE CONSIDERED 8-4-03 8/5/2003
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>DXN</i>	AA48	6,061,555	05/2000	Bultman et al.	455	313	✓
<i>DXN</i>	AB48	6,091,940	07/2000	Sorrells et al.	455	118	✓
<i>DXN</i>	AC48	6,266,518 B1	07/2001	Sorrells et al.	455	118	✓
<i>DXN</i>	AD48	6,353,735 B1	03/2002	Sorrells et al.	455	118	✓
<i>DXN</i>	AE48	6,370,371 B1	04/2002	Sorrells et al.	455	323	✓
<i>DXN</i>	AF48	5,628,055	05/1997	Stein	455	89	✓
<i>DXN</i>	AG48	5,678,220	10/1997	Fournier	455	302	✓
<i>DXN</i>	AH48	5,926,065	07/1999	Wakai et al.	329	304	✓

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>DXN</i>	AJ16	JP 58-133004	08/1983	JP	H03D	1/00	No
<i>DXN</i>	AK16	JP 60-58705	04/1985	JP	H03D	7/00	No
<i>DXN</i>	AL16	JP 4-123614	04/1992	JP	H03K	19/0175	No
<i>DXN</i>	AM16	JP 4-127601	04/1992	JP	H03D	7/00	No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AN	<u>54</u>	English-language Abstract of Japanese Patent Publication No. 60-058705, from http://www1.ipdl.jpo.go.jp , 1 Page (April 4, 1985 - Date of publication of application).
<i>DXN</i>	AO	<u>54</u>	English-language Abstract of Japanese Patent Publication No. 04-123614, from http://www1.ipdl.jpo.go.jp , 1 Page (April 23, 1992 - Date of publication of application).
<i>DXN</i>	AP	<u>54</u>	English-language Abstract of Japanese Patent Publication No. 04-127601, from http://www1.ipdl.jpo.go.jp , 1 Page (April 28, 1992 - Date of publication of application).
<i>DXN</i>	AQ	<u>54</u>	English-language Abstract of Japanese Patent Publication No. 05-175730, from http://www1.ipdl.jpo.go.jp , 1 Page (July 13, 1993 - Date of publication of application).
<i>DXN</i>	AR	<u>54</u>	English-language Abstract of Japanese Patent Publication No. 05-175734, from http://www1.ipdl.jpo.go.jp , 1 Page (July 13, 1993 - Date of publication of application).

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Shing D. Nguyen C. Chow

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8-4-03 5/5/2002

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C. CHOW *Sing & Nguyen*

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0260001APPLICATION NO.
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
<i>DXN</i>	AJ19	WO 95/01006 A1	01/1995	PCT	H03M	1/66	N/A
<i>DPN</i>	AK19	WO 97/08839 A2&A3	03/1997	PCT	H04B	1/04	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

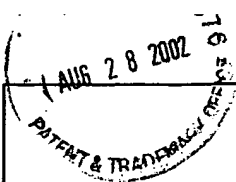
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C. Chow *Thing P. Nguyen*

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
<i>DXN</i>	AI48	3,622,885	11/1971	Oberdorf et al.	/	/	/

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
<i>DXN</i>	AL19	EP 0 254 844 A2	02/1988	EP	H03D	7/00	N/A
<i>DXN</i>	AM19	EP 0 632 577 A1	01/1995	EP	H03D	7/16	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DXN</i>	AO	56	English-language Abstract of Japanese Patent Publication No. 60-130203, from http://www1.ipdl.jpo.go.jp , 1 Page July 11, 1985 - Date of publication of application).

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Samy P. Aguiar

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 APPLICANT
Sorrells et al.

 FILING DATE
January 3, 2000

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
DPN	AA49	4,483,017	11/1984	Hampel et al.			
DPN	AB49	6,421,534 B1	07/2002	Cook et al.			08/18/1999
DPN	AC49	6,330,244 B1	12/2001	Swartz et al.			01/16/1998
DPN	AD49	4,384,357	05/1983	deBuda et al.			
DPN	AE49	4,470,145	09/1984	Williams			
DPN	AF49	5,600,680	02/1997	Mishima et al.			
DPN	AG49	5,606,731	02/1997	Pace et al.			
DPN	AH49	5,870,670	02/1999	Ripley et al.			
DPN	AI49	6,314,279 B1	11/2001	Mohindra			06/29/1998

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
DPN	AJ20	JP 60-130203	07/1985	JP	H03D	7/00	No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER c.d.how Dong Xa Nguyen	DATE CONSIDERED 8-4-03 5/5/2003
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1744.0260001

 APPLICATION NO.
09/476,093

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

 APPLICANT
Sorrells et al.

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January 3, 2000

 GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
CC. AAW		AA50	5,633,815	05/1997	Young		
DPN		AB50	09/476,091		Sorrells et al.		01/03/2000
DPN		AC50	09/476,092		Sorrells et al.		01/03/2000
DPN		AD50	09/476,330		Sorrells et al.		01/03/2000
AXW		AE50	09/569,044		Sorrells et al.		05/10/2000
AXW		AF50	09/569,045		Sorrells et al.		05/10/2000

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<i>DN</i>	AM19	EP 0 632 577 A1	01/1995	EP	H03D	7/16	N/A

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<i>DN</i>	AO	<u>56</u>	English-language Abstract of Japanese Patent Publication No. 60-130203, from http://www1.ipdl.jpo.go.jp , 1 Page July 11, 1985 - Date of publication of application).

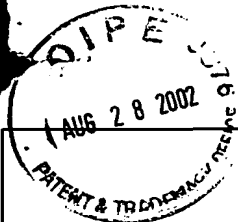
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<i>DXN</i>	AB49	6,421,534 B1	07/2002	Cook et al.	/	/	08/18/1999
<i>DXN</i>	AC49	6,330,244 B1	12/2001	Swartz et al.	/	/	01/16/1998
<i>DXN</i>	AD49	4,384,357	05/1983	deBuda et al.	/	/	/
<i>DXN</i>	AE49	4,470,145	09/1984	Williams	/	/	/
<i>DXN</i>	AF49	5,600,680	02/1997	Mishima et al.	/	/	/
<i>DXN</i>	AG49	5,606,731	02/1997	Pace et al.	/	/	/
<i>DXN</i>	AH49	5,870,670	02/1999	Ripley et al.	/	/	/
<i>DXN</i>	AI49	6,314,279 B1	11/2001	Mohindra	/	/	06/29/1998

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DPN	AB50	09/476,091	/	Sorrells <i>et al.</i>	/	/	01/03/2000
DPN	AC50	09/476,092	/	Sorrells <i>et al.</i>	/	/	01/03/2000
DPN	AD50	09/476,330	/	Sorrells <i>et al.</i>	/	/	01/03/2000
DPN	AE50	09/569,044	/	Sorrells <i>et al.</i>	/	/	05/10/2000
DPN	AF50	09/569,045	/	Sorrells <i>et al.</i>	/	/	05/10/2000

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